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SELECTED DATA

ON

FEDERAL SUPPORT TO

UNIVERSITIES AND COLLEGES:

FISCAL YEAR 1990

Science and Engineering Activities Program
Division of Science Resources Studies
National Science Foundation

92-310

SELECTED DATA

ON

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UNIVERSITIES AND COLLEGES:

FISCAL YEAR 1990

April 1992

Project Officer: Richard Bennof

Science and Engineering Activities Program
Division of Science Resources Studies
National Science Foundation

92-310

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Introduction

The data presented in this summary are derived from the **Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions: Fiscal Year 1990** (hereafter referred to as the Federal Support Survey), and are being released in advance of the publication that contains more comprehensive detailed statistical tables. Among the available data excluded from this summary are academic totals by type of institutional control, by highest degree granted, and by field of science and engineering (S&E) discipline; data on historically black colleges; data on nonprofit institutions; and data on university and nonprofit-administered federally funded research and development centers (FFRDCs).

Survey Coverage

The 15 Federal agencies surveyed in this report provided virtually all of the Federal funding for S&E research and development (R&D) at universities and colleges. The data presented in these tables are for all categories of direct Federal obligations to institutions of higher education in the United States. Therefore, amounts that are subcontracted to other institutions are included, but funds that are received by academic institutions via subcontract arrangements from prime contractors are excluded. Amounts for tuition support programs such as Pell grants and Supplemental Educational Opportunity Grants are included in these figures. Totals exclude loans to individuals, however, such as those related to federally guaranteed student loan programs sponsored by the Department of Education and to Federal employee training and development activities.

Obligations are the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required. Obligations differ from expenditures in that funds allocated by Federal agencies during one fiscal year may be expended by the recipient institution either partially or entirely during one or more subsequent years.

Data Limitations and Relationship of this Survey to the Survey of Federal Funds for Research and Development

Data presented in this report on R&D and R&D plant by agency sometimes conflict significantly with such data presented in the annual NSF survey, **Federal Funds for Research and Development**, referred to hereafter as the Federal Funds Survey. The treatment of interagency transfers explains much of the difference in the totals. Interagency transfers of funds obligated to an academic or nonprofit institution are reported in the Federal Support Survey by the agency that actually obligates the funds to the receiving institution. In the Federal Funds Survey, however, obligations are reported by the initiating agency. Each of several agencies utilizes personnel from separate internal offices to respond to the two individual surveys, and each frequently collects data from different sources. Data for the Federal Support Survey, for example, are generally processed from award files, whereas Federal Funds data are usually

derived from agency budget documents. Respondents from the separate internal offices that participate in the two surveys also frequently differ in their interpretation of the survey questions. The National Institutes of Health, for example, report their Biomedical Research Support Grants under "general support for science & engineering" in the Federal Support Survey but under "research and development" in the Federal Funds Survey. Regarding the structure of the surveys themselves, the data presented in this report differ in several ways from those presented in the report on the Federal Funds Survey:

1. The two surveys differ in number of agencies involved. In the Federal Support Survey, the 15 Federal agencies that obligate virtually all of Federal support to academic R&D collect data on all Federal obligations to institutions of higher education. For the Federal Funds Survey, data are gathered on budgets for R&D and R&D plant from all 33 Federal agencies that conduct such programs.

2. The scope of information gathered differs between the two surveys: data collected in the Federal Support Survey pertain to individual academic institutions, whereas those collected in the Federal Funds Survey relate to all types of performers and to character of work (basic and applied research, and development).

For further information concerning the availability of Federal Support Survey data and the technical aspects of this survey, please contact the Project Officer:

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DATA TAPES

Public-use data tapes from the Integrated Academic Science and Engineering Data Base are available for purchase and will normally be shipped within three working days from order receipt. Data tapes from the most recent surveys (1990) are currently available. Individuals interested in obtaining data tapes should request a copy of the **Supplemental User Guide to Data Tapes** from the National Science Foundation's (NSF's) Surveys of Academic Science and Engineering, which contains order forms and detailed information about the tapes. This document may be obtained by calling NSF's Division of Science Resources Studies at (202) 634-4673.

INSTITUTIONAL PROFILES

Selected data items for individual doctorate-granting institutions and schools with S&E departments that grant a master's degree are available on computer-generated Institutional Profiles. An Institutional Profile consists of data not only from this survey but also from NSF's other two academic S&E surveys: the Survey of Scientific and Engineering Expenditures at Universities and Colleges and the Survey of Graduate Science and Engineering Students and Postdoctorates. For information on obtaining one or a limited group of Institutional Profiles, please call Richard Bennof at (202) 634-4673.

CASPAR

Institutional planners are now able to acquire data from several academic S&E resources on CD-ROM compact disc. The compact disc contains the Computer-Aided Science Policy Analysis and Research (CASPAR) database system, which is an easy-to-use tool for retrieval and analysis of statistical data on academic S&E resources. CASPAR provides the analyst with an extensive and growing data library with multiyear statistics on the state of higher education in general, and on academic S&E resources specifically. This data library is based on a set of standardized institutional and field of science definitions across the multiple sources used to develop the database. The CASPAR program includes built-in help capabilities to facilitate the use and interpretation of the data.

CASPAR data are drawn from a number of sources. All are available for individual institutions, by State, and at the national level. Longitudinal data from surveys of universities and colleges conducted by the NSF Division of Science Resources Studies include the Federal Support Survey and R&D Expenditures Survey in addition to the Graduate Student Survey. Data from the surveys of universities and colleges conducted by the National Center for Education Statistics include Earned Degrees, Opening Fall Enrollment, Faculty Salaries, Tenure and Fringe Benefits, and Financial Statistics. Data from other sources include the National Research Council Doctorate Programs Ratings.

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Table 1. Federal obligations to universities and colleges, by type of activity: fiscal years 1963-90 1/

[Dollars in thousands]

Fiscal year	Total obligations	Academic science and engineering							Non-science and engineering activities
		Total academic science & engineering	Research and develop-ment	R&D plant	Facilities for instruction in science & engineering	Fellow-ships, trainee-ships, & training grants	General support for science & engineering	Other science & engineering activities	
1963	1,413,015	1,328,511	829,524	105,896	2/	2/	2/	393,091	84,504
1964	1,624,963	1,528,604	975,597	100,837	2/	2/	2/	452,170	96,359
1965	2,305,455	1,816,171	1,094,963	126,196	2/	2/	2/	595,012	489,284
1966	3,009,950	2,163,504	1,252,146	114,767	2/	365,560	2/	431,031	846,446
1967	3,317,709	2,323,795	1,301,242	111,309	2/	447,236	2/	464,008	993,914
1968	3,386,637	2,349,817	1,398,305	96,148	2/	440,895	2/	414,469	1,036,820
1969	3,462,370	2,361,399	1,474,681	54,516	2/	436,270	2/	395,932	1,100,971
1970	3,236,612	2,187,579	1,446,618	44,778	2/	429,408	2/	266,775	1,049,033
1971	3,498,596	2,343,129	1,551,391	29,942	28,729	421,029	99,669	212,369	1,155,467
1972	4,144,692	2,599,111	1,853,085	36,917	26,341	387,888	83,288	211,592	1,545,581
1973	3,839,102	2,464,362	1,870,690	43,338	13,372	287,210	38,964	210,788	1,374,740
1974	4,480,372	2,736,984	2,085,204	29,009	3,506	326,600	86,974	205,691	1,743,388
1975	4,547,191	2,805,783	2,246,088	44,787	5,026	201,273	46,353	262,256	1,741,408
1976	5,402,764	2,959,656	2,430,970	23,899	3,210	174,871	74,483	252,223	2,443,108
1977	6,489,735	3,351,337	2,803,017	36,471	3,282	184,671	75,928	247,968	3,138,398
1978	7,471,843	3,959,832	3,385,770	34,328	4,906	205,925	74,398	254,505	3,512,011
1979 3/.....	7,603,908	4,472,659	3,873,514	32,068	6,743	204,866	92,483	262,985	3,131,249
1980	8,298,804	4,790,972	4,160,543	37,780	3,776	210,121	91,541	287,211	3,507,832
1981 3/.....	8,640,925	5,062,856	4,410,931	27,694	4,563	205,448	92,721	321,499	3,578,069
1982 3/.....	8,776,978	5,179,610	4,554,475	31,200	829	176,582	80,137	336,387	3,597,368
1983 3/.....	9,344,618	5,680,631	5,024,330	37,547	2,522	189,616	94,847	331,769	3,663,987
1984	10,039,468	6,308,014	5,448,821	49,764	1,889	194,895	112,588	500,057	3,731,454
1985	10,971,593	7,257,862	6,246,181	113,932	4,947	253,082	119,171	520,549	3,713,731
1986	11,619,243	7,430,872	6,456,743	105,827	4,990	246,196	111,130	505,986	4,188,371
1987	13,433,783	8,565,441	7,241,001	229,875	13,722	290,942	236,933	552,968	4,868,342
1988	14,066,510	9,133,458	7,719,162	202,907	13,374	309,348	171,826	716,841	4,933,052
1989	15,502,301	10,071,567	8,522,555	237,010	16,911	340,458	197,745	756,888	5,430,734
1990 3/.....	15,204,563	10,461,699	9,031,047	124,841	19,241	409,871	142,532	734,167	4,742,864

1/ Note that some trend shifts are related to institutional reclassification. As of 1978, two laboratories that were formerly considered academically administered Federally Funded Research and Development Centers (FFRDCs) became part of their respective institutions: Applied Physics Laboratory (Johns Hopkins University) and Applied Research Laboratory (Pennsylvania State University). Data for these laboratories are thus included in the academic figures for 1978-90, but excluded for prior years. Similarly, Draper Laboratories separated from the Massachusetts Institute of Technology as of fiscal year 1974 to become an independent nonprofit institution; academic data shown for 1963-73 include Draper Laboratories, whereas those for 1974-90 do not.

2/ Not separately identified but included under "other science and engineering activities".

3/ For fiscal years (FYs) 1979 and 1981 through 1983, total and non-science and engineering obligations were estimated on the basis of revised data from the Department of Education. The decrease between FYs 1989 and 1990 in total obligations is largely attributable to a decline in the Department of Education's student financial assistance obligations (under "non-science and engineering activities"), which are funded on a multiyear basis and can fluctuate significantly from year to year.

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1990

Table 2. Federal obligations to universities and colleges for research and development, by geographic division and State: fiscal years 1983-90

[Dollars in thousands]

Geographic division and State	1983	1984	1985	1986	1987	1988	1989	1990
United States, total	5,024,330	5,448,821	6,246,181	6,456,743	7,241,001	7,719,162	8,522,555	9,031,047
New England, total	614,331	666,700	737,777	757,600	819,318	840,017	941,872	971,451
Connecticut	116,971	128,786	144,455	146,545	174,433	175,972	188,744	189,462
Maine	6,476	7,999	7,166	6,449	8,518	6,618	9,090	10,197
Massachusetts	424,213	453,875	496,981	508,166	536,955	545,068	629,070	635,891
New Hampshire	19,436	22,409	27,750	30,564	34,573	36,766	37,007	52,386
Rhode Island	33,879	35,219	42,131	43,646	40,731	47,349	49,525	51,828
Vermont	13,356	18,412	19,294	22,230	24,108	28,244	28,436	31,687
Middle Atlantic, total	863,889	941,878	1,108,296	1,131,083	1,268,422	1,352,552	1,449,048	1,527,908
New Jersey	61,998	71,331	83,023	86,000	97,785	104,853	120,932	139,264
New York	527,872	581,251	680,273	671,899	752,897	795,186	843,497	851,970
Pennsylvania	274,019	289,296	345,000	373,184	417,740	452,513	484,619	536,674
East North Central, total	682,781	747,405	862,892	873,904	982,023	1,018,935	1,139,209	1,215,092
Illinois	209,434	226,377	260,394	262,640	297,266	301,297	324,405	351,598
Indiana	77,043	87,369	101,734	100,144	111,184	111,779	131,315	138,349
Michigan	144,557	157,889	178,920	183,814	213,474	233,121	259,265	274,276
Ohio	138,882	148,999	171,831	179,050	199,011	210,593	238,131	252,157
Wisconsin	112,865	126,771	150,013	148,256	161,088	162,145	186,093	198,712
West North Central, total	267,621	309,033	359,097	360,139	410,069	428,857	472,065	519,970
Iowa	53,229	61,933	69,926	74,279	81,722	89,074	103,214	106,735
Kansas	24,765	25,845	31,198	33,239	35,863	37,228	39,105	44,005
Minnesota	74,279	85,132	104,471	102,293	121,588	123,621	133,439	141,748
Missouri	86,389	94,072	108,629	111,289	129,483	137,276	150,269	169,883
Nebraska	14,714	23,816	26,979	24,524	28,464	25,763	27,462	29,379
North Dakota	10,031	13,534	12,625	9,479	8,109	11,044	11,715	22,429
South Dakota	4,214	4,701	5,269	5,036	4,840	4,851	6,861	5,791
South Atlantic, total	884,524	866,760	1,005,463	1,066,480	1,217,674	1,385,893	1,479,550	1,579,151
Delaware	9,230	10,123	12,221	12,863	12,067	15,261	16,333	17,922
District of Columbia	54,379	46,096	56,320	49,955	61,057	72,668	71,761	78,658
Florida	90,328	91,555	113,479	121,231	148,757	185,626	196,397	181,474
Georgia	101,043	98,686	118,087	127,973	144,034	166,914	183,001	175,024
Maryland	377,480	346,321	375,086	415,943	460,057	522,341	514,747	589,856
North Carolina	141,393	155,208	184,060	194,999	228,096	246,688	287,838	305,255
South Carolina	23,900	24,424	33,188	32,726	33,516	35,595	38,927	42,705
Virginia	78,055	83,272	103,168	101,082	118,161	126,596	155,454	166,017
West Virginia	8,716	11,075	9,854	9,708	11,929	14,204	15,092	22,240
East South Central, total	158,205	165,738	205,350	219,146	270,537	290,579	312,589	337,887
Alabama	53,565	60,489	70,944	79,921	100,553	106,502	123,373	129,701
Kentucky	19,211	21,281	27,186	27,974	30,721	31,965	37,620	38,185
Mississippi	18,659	18,103	25,150	22,979	31,825	37,891	36,227	36,277
Tennessee	66,770	65,865	82,070	88,272	107,438	114,221	115,369	133,724
West South Central, total	318,708	356,507	420,655	434,494	485,424	517,088	590,849	598,177
Arkansas	10,411	11,935	15,323	14,527	15,487	15,599	19,643	23,586
Louisiana	36,213	40,098	51,373	47,715	59,619	61,456	100,418	69,265
Oklahoma	21,429	24,010	27,880	29,468	32,215	25,495	30,968	35,866
Texas	250,655	280,464	326,079	342,784	378,103	414,538	439,820	469,460
Mountain, total	276,696	328,684	345,949	366,578	392,342	412,334	480,246	533,129
Arizona	49,004	54,295	64,672	65,808	80,345	83,490	103,319	115,683
Colorado	83,570	97,761	104,640	108,473	129,826	145,900	147,301	168,905
Idaho	5,211	15,765	5,757	5,296	6,998	8,617	10,424	10,381
Montana	6,823	7,014	6,549	8,015	8,766	8,554	10,414	13,041
Nevada	7,875	7,299	10,189	10,895	14,955	13,856	16,188	23,111
New Mexico	53,631	65,427	60,630	79,466	55,058	56,163	74,134	69,397
Utah	59,164	65,774	76,557	81,627	86,950	86,648	108,117	122,880
Wyoming	11,418	15,349	16,955	6,998	9,444	9,076	10,349	9,731
Pacific, total	945,737	1,055,852	1,188,994	1,234,207	1,379,461	1,457,359	1,637,254	1,726,488
Alaska	8,196	10,611	12,214	14,645	15,373	15,928	15,111	25,060
California	724,147	793,609	908,141	953,989	1,057,440	1,109,851	1,258,964	1,317,370
Hawaii	25,860	24,691	33,656	29,196	39,410	39,651	47,913	48,276
Oregon	56,810	72,618	70,068	71,764	84,038	91,133	90,801	95,772
Washington	130,724	154,323	164,915	164,613	183,200	200,796	224,465	240,010
Outlying Areas, total	11,838	10,264	11,708	13,112	15,731	15,548	19,873	21,794
Guam	1,080	1,038	1,138	1,165	1,107	1,096	1,193	1,320
Puerto Rico	8,496	8,337	9,045	10,268	12,678	12,354	16,561	18,000
American Samoa	584	200	.15	290	340	365	290	592
Virgin Islands	1,067	599	931	916	1,026	1,091	1,052	1,053
Trust Territory Pac Isl	611	90	479	473	580	642	777	829

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1990

Table 3. Federal obligations for research and development to the 100 universities and colleges receiving the largest amounts, by agency: fiscal year 1990 1/

[Dollars in thousands]

Rank	Institution (ranked by amount received)	Total	USDA	Com	DOD Res. 2/	DOD Dev. 2/	Ed	DOE	EPA	HHS	NASA	NSF	Other 3/
	Total, all institutions	9,031,047	349,121	97,251	720,555	476,323	71,301	512,376	87,104	4,774,514	470,746	1,304,613	167,143
1	Johns Hopkins University	470,935	154	237	9,650	247,955	4,992	2,325	333	190,178	4,503	8,460	2,148
2	Stanford University	247,992	0	30	35,004	2,456	859	16,692	2,298	114,486	48,483	27,417	267
3	Mass Inst of Technology	218,318	0	2,791	48,311	857	657	46,852	533	52,337	20,894	41,692	3,394
4	University of Washington	217,291	2,404	5,111	21,167	610	819	7,745	1,230	141,776	6,681	27,041	2,707
5	Univ of Cal Los Angeles	176,735	189	76	9,213	152	1,030	17,707	81	121,225	7,176	19,367	519
6	University of Michigan	176,620	1,079	1,588	11,573	211	464	7,878	1,775	114,759	9,849	24,904	2,540
7	Univ of Cal San Francisco	167,270	0	0	1,514	596	0	3,474	160	159,324	953	1,249	0
8	Univ of Cal San Diego	165,224	325	564	21,227	606	0	4,078	138	96,271	12,314	28,681	1,020
9	Univ of Wis-Madison	155,175	7,430	126	4,933	57	0	14,717	392	83,506	12,228	31,510	276
10	Columbia Univ Main Div	153,171	5	736	8,899	1,164	175	6,807	480	98,778	5,498	29,042	1,587
	Total 1st 10 institutions	2,148,731	11,586	11,259	171,491	254,664	8,996	128,275	7,420	1,172,640	128,579	239,363	14,458
11	Harvard University	148,055	0	65	5,509	1,500	500	5,317	935	108,223	3,801	19,361	2,844
12	Cornell University	144,749	9,868	282	13,835	0	0	4,445	1,287	64,480	5,345	43,554	1,653
13	Univ of Pennsylvania	142,509	303	81	11,003	0	1,105	6,004	0	108,854	478	14,168	513
14	Yale University	142,483	279	30	5,826	450	0	8,963	182	116,077	883	9,793	0
15	University of Minnesota	137,495	7,210	741	9,733	324	293	4,560	1,303	90,481	3,136	18,936	778
16	Pennsylvania State Univ	136,754	7,699	360	23,185	41,769	96	3,909	473	30,408	7,503	15,261	6,091
17	Univ of Cal Berkeley	123,983	9,150	0	8,347	2,182	6,733	4,197	503	38,603	19,017	31,293	3,958
18	Univ of Southern Cal	122,734	0	684	34,238	3,946	162	1,428	727	65,483	5,454	10,346	266
19	Washington University	117,907	399	0	2,016	106	0	1,732	100	105,863	2,640	5,051	0
20	University of Colorado	116,449	178	7,951	6,650	50	200	4,211	1,067	64,346	11,848	19,569	379
	Total 1st 20 institutions	3,481,849	46,672	21,453	291,833	304,991	18,085	173,041	13,997	1,965,458	188,684	426,695	30,940
21	Duke University	116,109	505	167	3,158	2,085	0	3,986	1,552	93,949	765	9,942	0
22	University of Pittsburgh	114,262	52	63	3,000	8,370	2,662	2,589	2,475	85,235	1,046	8,726	44
23	University of Chicago	104,074	0	193	2,370	0	0	19,312	0	60,018	5,485	16,691	5
24	University of Rochester	102,453	117	0	5,148	1,583	170	16,309	0	70,798	195	8,133	0
25	Univ of NC at Chapel Hill	100,183	115	33	2,866	0	1,192	818	3,308	82,369	528	8,906	48
26	Univ of Ill Urbana	99,742	7,268	0	14,821	167	0	12,380	810	16,979	3,923	42,113	1,281
27	Univ of Texas at Austin	93,401	142	60	17,886	21,446	0	15,584	648	13,401	6,397	14,573	3,258
28	University of Arizona	92,824	2,950	150	5,166	2,892	420	2,403	409	43,200	18,208	15,392	1,594
29	Ohio State University	80,401	7,781	909	4,205	342	0	4,088	1,465	33,191	4,568	14,511	9,341
30	University of Iowa	76,762	70	81	2,001	225	248	558	392	63,703	4,134	5,349	1
	Total 1st 30 institutions	4,462,060	65,672	23,155	352,454	342,101	22,777	251,068	25,056	2,528,301	233,933	571,031	46,512
31	New York University	75,749	0	0	4,484	0	176	3,933	958	59,067	422	6,709	0
32	Univ Alabama Birmingham	74,529	275	0	1,195	3,911	0	0	0	63,783	3,030	2,335	0
33	Baylor Col of Medicine	72,260	7,962	0	677	0	757	384	0	61,753	727	0	0
34	Case Western Reserve Univ	71,263	0	0	3,682	0	500	407	347	54,114	6,598	5,615	0
35	Vanderbilt University	70,585	0	0	3,336	0	904	1,814	0	59,528	2,385	2,588	30
36	California Inst of Tech	69,228	0	90	10,872	0	0	8,855	314	14,362	9,094	24,140	1,501
37	Univ of Cal Davis	68,952	3,682	0	1,160	408	698	10,091	511	39,541	1,402	9,353	2,106
38	Yeshiva University	67,045	0	0	234	0	75	0	0	66,322	0	414	0
39	University of Massachuset	66,811	2,897	40	8,697	347	249	2,273	445	37,831	1,764	11,996	272
40	University of Utah	65,250	161	0	4,449	134	87	4,501	384	44,655	697	8,583	1,599
	Total 1st 40 institutions	5,163,732	80,649	23,285	351,240	346,901	26,223	283,326	28,015	3,029,257	260,052	642,764	52,020
41	Univ of MD College Park	64,723	3,820	3,832	8,319	1,208	2,090	7,759	1,023	4,901	12,755	18,080	936
42	University of Miami	63,707	0	2,132	3,979	35	303	439	0	46,405	1,717	8,657	40
43	Purdue University	63,167	9,287	0	3,887	56	167	7,216	278	17,313	2,222	15,972	6,769
44	Indiana University	61,435	0	0	510	0	90	3,363	719	38,572	671	17,140	370
45	Northwestern University	61,100	50	15	6,761	0	1,351	3,816	0	35,994	1,135	11,887	91
46	University of Virginia	60,796	1	2,139	4,281	683	1,346	2,812	569	35,100	4,238	8,945	682
47	Boston University	59,380	0	100	2,392	3,966	1,052	2,331	100	41,385	988	7,066	0
48	Michigan State University	56,619	12,815	116	1,932	26	1,960	3,440	404	14,495	634	17,977	2,820
49	University of Florida	56,063	7,606	107	3,944	2,073	0	2,871	698	26,938	2,235	7,545	2,046
50	Georgia Institute of Tech	54,271	0	297	7,622	30,924	0	1,227	817	2,609	3,433	6,559	783
	Total 1st 50 institutions	5,764,993	114,228	32,023	434,867	385,872	34,582	318,600	32,623	3,292,969	290,080	762,592	66,557

See explanatory material, if any, and SOURCE, at end of table.

Table 3. Federal obligations for research and development to the 100 universities and colleges receiving the largest amounts, by agency: fiscal year 1990 1/

[Dollars in thousands]

Rank	Institution (ranked by amount received)	Total	USDA	Com	DOD Res. 2/	DOD Dev. 2/	Ed	DOE	EPA	HHS	NASA	NSF	Other 3/
51	Univ of Cal Irvine	53,429	0	0	8,310	994	0	4,045	190	29,122	1,459	9,309	0
52	Utah State University	52,713	2,689	0	10,698	32,834	297	123	516	1,895	1,000	2,103	558
53	Woods Hole Ocngrphic Inst	50,751	0	1,623	20,420	0	0	601	301	224	407	27,175	0
54	U Tex Sw Med Ctr - Dallas	50,504	0	0	125	0	0	0	0	48,789	1,208	382	0
55	Princeton University	50,474	0	1,192	8,829	0	0	5,920	700	13,059	4,023	16,635	116
56	Carnegie-Mellon Univ	50,025	125	0	14,078	8,373	0	3,873	0	5,986	2,778	14,389	423
57	Emory University	49,581	0	0	799	0	50	82	0	46,239	297	2,114	0
58	Texas A & M University	47,221	10,760	4,162	3,006	80	0	4,738	226	7,989	3,127	12,655	478
59	SUNY at Stony Brook	45,868	0	0	325	0	0	3,509	0	26,451	1,967	13,564	52
60	New Mexico State Univ	45,177	2,380	0	3,970	12,248	0	6,135	84	406	16,324	3,462	168
	Total 1st 60 institutions	6,260,736	130,182	39,000	505,427	440,401	34,929	347,626	34,640	3,473,129	322,670	864,380	68,352
61	Univ of Tennessee All Cmp	44,759	5,385	0	1,163	0	0	11,643	445	20,419	1,619	3,879	206
62	Rutgers the St Univ of NJ	44,642	4,433	303	3,147	4,320	1,300	1,227	102	19,027	604	9,934	245
63	Oregon State University	44,542	8,856	2,509	6,374	0	0	1,136	1,249	8,260	1,948	11,493	2,717
64	CUNY Mount Sinai Schl Med	43,954	0	0	0	0	291	101	86	43,109	216	151	0
65	University of Connecticut	43,589	1,528	3,318	2,235	0	1,500	797	127	29,011	293	4,535	245
66	N C State Univ at Raleigh	43,466	9,081	353	7,160	577	500	1,816	1,679	5,111	3,979	9,709	3,501
67	Virginia Commonwlth Univ	42,678	0	0	924	0	660	242	152	39,751	411	538	0
68	Univ of Ill Chicago	42,293	9	0	2,860	190	759	541	301	30,429	419	5,310	1,475
69	Univ of Cal Santa Barbara	41,661	281	57	13,176	1,070	492	3,116	421	4,376	2,422	15,026	1,224
70	Univ of MD Balt Prof Sch	41,100	0	0	1,518	726	0	226	464	37,431	0	735	0
	Total 1st 70 institutions	6,693,420	159,755	45,540	543,984	447,284	40,431	368,471	39,666	3,710,053	334,581	925,690	77,965
71	Louisiana State Univ	40,886	3,750	2,996	1,325	350	0	1,704	2,535	22,572	710	4,480	464
72	Colorado State University	40,820	5,852	2,292	3,657	0	622	1,780	616	14,993	2,231	7,290	1,487
73	Univ of Hawaii-Manoa	40,049	4,158	0	2,691	0	0	1,516	0	10,130	5,775	12,603	3,176
74	University of Georgia	39,767	8,519	1,224	977	0	0	10,281	1,160	10,214	412	6,700	280
75	Tufts University	39,142	11,303	0	381	0	128	1,017	3,239	21,610	30	1,403	31
76	University of Cincinnati	38,674	0	0	2,476	0	46	295	565	30,270	2,118	2,594	310
77	Univ of Med & Dent of N J	38,066	94	0	966	0	0	286	792	35,131	254	543	0
78	SUNY at Buffalo All Cmps	36,291	0	0	1,725	372	0	694	52	27,119	1,213	5,116	0
79	Rockefeller University	35,423	0	0	146	0	0	1,185	15	33,391	0	686	0
80	Brown University	33,342	0	62	7,051	0	0	3,265	0	12,893	1,244	8,531	296
	Total 1st 80 institutions	7,075,880	193,431	52,114	565,379	448,006	41,227	390,494	48,640	3,928,376	348,568	975,636	84,009
81	U Tex Hlth Sci Ctr S Anto	33,306	0	0	108	278	0	0	0	32,281	0	639	0
82	VA Polytech Inst & St U	32,239	5,502	137	4,976	176	0	6,787	1,066	2,504	3,969	4,476	2,646
83	Dartmouth College	31,409	230	0	2,121	0	0	576	0	25,718	854	1,910	0
84	Univ of VT & St Agric Col	31,402	2,980	0	149	152	0	588	0	26,000	15	1,374	144
85	U TX MD Anderson Cncr Ctr	30,650	0	0	0	0	0	18	146	30,322	0	164	0
86	U Tex Hlth Sci Ctr Houstn	29,943	80	0	0	0	0	0	0	28,877	674	312	0
87	University of Kentucky	29,375	6,486	22	227	224	0	3,106	152	14,406	210	3,802	740
88	Wake Forest University	29,019	0	248	209	0	0	168	0	27,419	290	685	0
89	Iowa State University	28,915	11,417	3,232	880	0	72	825	243	4,259	441	5,155	2,391
90	Georgetown University	28,740	355	13	2,158	206	1,218	295	345	22,147	0	1,083	920
	Total 1st 90 institutions	7,380,878	220,481	55,766	576,207	449,042	42,517	402,857	50,592	4,142,309	355,021	995,236	90,850
91	Wayne State University	27,689	0	0	911	75	0	300	0	23,440	195	2,700	68
92	Florida State University	27,531	100	431	1,833	90	0	13,576	720	3,920	1,234	5,252	375
93	University of Kansas	27,212	0	132	768	0	2,113	441	53	19,633	1,026	2,861	185
94	Temple University	26,098	100	0	660	0	274	335	0	22,716	45	1,938	30
95	Oregon Hlth Sciences Univ	25,344	0	0	655	0	0	0	0	24,334	0	355	0
96	Univ of Missouri Columbia	25,258	6,492	0	270	0	0	641	137	13,838	154	3,559	167
97	University of Dayton	23,852	0	60	18,147	4,330	0	0	548	87	154	473	53
98	George Washington Univ	23,387	0	91	2,474	72	229	647	171	16,473	2,240	990	0
99	Thomas Jefferson Univ	22,195	44	0	1,042	0	605	0	0	18,258	0	171	2,075
100	Tulane University	21,884	0	0	283	0	0	0	0	18,296	118	939	2,248
	Total 1st 100 institutions	7,631,328	227,217	56,480	603,250	453,609	45,738	418,797	52,221	4,303,304	360,187	1,014,474	96,051

1/ Does not include R&D obligations to university-administered federally funded research and development centers (FFRDCs).

2/ In this table, Department of Defense research (DOD Res.) is reported separately from DOD development (DOD Dev.). DOD states that more than 90 percent of its development reported for "universities and colleges" is performed at university-affiliated laboratories that are separate from the academic departments.

3/ Includes DOT, AID, HUD, Labor, NRC, and Interior.

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1990

Table 4. Federal obligations to universities and colleges for research and development, by State, institution, and agency: fiscal year 1990

[Dollars in thousands]

State and institution	Total	USDA	Com	DOD Res. 1/	DOD Dev. 1/	Ed	DOE	EPA	HHS	NASA	NSF	Other 2/
United States, total	9,031,047	349,121	97,251	720,555	476,323	71,301	512,376	87,104	4,774,514	470,746	1,304,613	167,143
Alabama, total	129,701	9,244	190	8,544	4,382	0	2,772	143	72,442	22,943	6,833	2,208
Ala Avn and Tech College	220	0	0	0	0	0	0	0	0	0	220	0
Alabama A & M University	4,702	1,975	0	280	178	0	215	33	50	991	980	0
Auburn University	15,697	5,186	37	2,632	150	0	1,442	85	498	2,844	1,035	1,788
Birmingham Southern Col	124	0	0	0	0	0	0	0	0	0	124	0
Jacksonville State Univ	90	0	0	0	0	0	0	0	0	0	90	0
Selma University	140	24	0	0	0	0	116	0	0	0	0	0
The University of Alabama	3,451	0	69	0	0	0	784	25	700	552	901	420
Tuskegee University	4,151	1,770	0	550	143	0	170	0	666	452	400	0
Univ of South Alabama	7,191	14	84	91	0	0	45	0	6,745	0	212	0
Univ Alabama Birmingham	74,529	275	0	1,195	3,911	0	0	0	63,783	3,030	2,335	0
Univ Alabama Huntsville	19,408	0	0	3,796	0	0	0	0	0	15,074	536	0
Alaska, total	25,060	1,115	3,961	256	0	0	1,092	100	424	7,660	9,781	471
Alaska Pacific University	33	0	0	0	0	0	0	0	0	0	0	33
Univ of Alaska Anchorage	1,673	0	1,529	5	0	0	0	0	122	0	0	14
Univ of Alaska Fairbanks	20,462	23	933	251	0	0	1,092	100	302	7,660	9,781	320
Univ of Alaska Southeast	1,603	0	1,499	0	0	0	0	0	0	0	0	104
Univ of Alaska System Off	1,292	1,292	0	0	0	0	0	0	0	0	0	0
Arizona, total	115,683	3,100	210	8,167	3,126	1,233	3,772	625	47,968	20,155	24,963	2,364
Amer Grad Sch of Intl Man	46	0	0	0	0	46	0	0	0	0	0	0
Arizona State University	19,176	11	20	2,995	234	137	1,369	216	4,601	1,921	7,323	349
Maricopa Co C C Sys Off	800	0	0	0	0	0	0	0	0	0	800	0
Northern Arizona Univ	2,837	139	0	6	0	630	0	0	167	26	1,448	421
University of Arizona	92,824	2,950	190	5,166	2,892	420	2,403	409	43,200	18,208	15,392	1,594
Arkansas, total	23,586	7,014	250	729	0	1,566	1,125	180	7,673	193	1,727	3,129
Arkansas State University	157	0	0	0	0	0	72	0	14	22	0	49
Arkansas Tech University	838	0	0	0	0	0	838	0	0	0	0	0
Henderson State Univ	59	0	0	0	0	0	0	0	0	0	59	0
Hendrix College	41	0	0	0	0	0	0	0	0	0	41	0
John Brown University	1	0	0	0	0	0	0	0	1	0	0	0
Ouachita Baptist Univ	77	0	0	77	0	0	0	0	0	0	0	0
U of Arkansas Med Sci Cam	6,650	0	0	0	0	0	0	0	6,642	0	8	0
Univ of Ark Fayetteville	13,832	5,780	250	417	0	1,566	215	180	815	141	1,543	2,925
Univ of Ark Little Rock	586	0	0	145	0	0	0	0	201	30	76	134
Univ of Ark Pine Bluff	1,345	1,234	0	90	0	0	0	0	0	0	0	21
California, total	1,317,370	15,363	5,339	149,082	12,499	10,161	78,587	6,010	709,269	114,399	199,756	16,905
Cal Poly St U San Luis Ob	846	26	0	0	0	0	0	0	0	323	477	20
Cal St U - San Bernadino	22	0	0	0	0	0	0	0	0	0	22	0
Cal St U Dominguez Hills	367	0	0	0	0	0	0	0	0	0	367	0
Calif St Poly Univ Pomona	424	30	0	0	0	0	0	0	0	15	310	69
Calif St U Bakersfield	30	0	0	0	0	0	0	0	0	0	30	0
Calif St Univ Fullerton	1,664	0	0	0	0	0	43	0	236	34	1,351	0
Calif St Univ Hayward	160	0	0	0	0	0	20	0	0	90	50	0
Calif St Univ Long Beach	1,895	0	0	457	0	0	0	100	406	188	744	0
Calif St Univ Los Angeles	3,200	0	0	0	0	0	0	0	1,600	15	1,585	0
Calif St Univ Northridge	839	0	0	0	0	0	60	0	398	29	352	0
Calif St Univ Sacramento	180	0	0	0	0	0	180	0	0	0	0	0
Calif St Univ Stanislaus	19	0	0	0	0	0	0	0	0	0	19	0
Calif State Univ Chico	8	0	0	0	0	0	0	0	0	0	8	0
Calif State Univ Fresno	39	0	0	0	0	0	0	0	0	0	39	0
California Inst of Tech	69,228	0	90	10,872	0	0	8,855	314	14,362	9,094	24,140	1,501
Charles R. Drew Med&Sci	3,814	0	0	0	0	0	0	0	3,814	0	0	0
Claremont U Ctr & Grad Sc	19	0	0	0	0	0	0	0	0	0	19	0
Evergreen Valley College	71	0	0	0	0	0	0	0	0	0	71	0
Five Colleges Inc.	44	0	0	0	0	0	0	0	0	0	44	0
Foothill-Deanza CC Sys Of	286	0	0	0	0	0	0	0	0	286	0	0
Golden West College	36	0	0	0	0	0	0	0	0	0	36	0
Harvey Mudd College	257	0	0	0	0	0	0	0	0	0	257	0
Humboldt State University	633	412	0	0	0	0	0	0	0	23	7	191
Loma Linda University	2,325	0	0	0	0	0	0	0	2,210	0	115	0
Merritt College	176	0	0	0	0	0	0	0	176	0	0	0
Mills College	92	0	0	0	0	0	0	0	0	0	92	0
Monterey Inst Intl Study	19	0	0	0	0	0	0	0	0	0	19	0
National Hispanic Univ.	77	0	0	0	0	0	77	0	0	0	0	0
Occidental College	383	0	0	55	0	0	0	0	104	0	224	0
Pepperdine University	439	0	0	0	0	0	0	0	0	0	439	0
Pitzer College	213	0	0	0	0	0	0	0	213	0	0	0
Point Loma College	32	0	0	0	0	0	0	0	0	0	32	0
Pomona College	326	0	0	0	0	0	0	0	71	0	255	0
San Diego State Univ	15,600	71	47	3,474	89	0	1,622	250	6,537	546	2,685	179
San Francisco State Univ	3,293	0	25	325	0	0	95	0	831	185	1,772	60

See explanatory material, if any, and SOURCE, at end of table.

Table 4. Federal obligations to universities and colleges for research and development, by State, institution, and agency: fiscal year 1990

[Dollars in thousands]

State and institution	Total	USDA	Com	DOD Res. 1/	DOD Dev. 1/	Ed	DOE	EPA	HHS	NASA	NSF	Other 2/
California, cont'd												
San Jose State University	6,628	0	64	315	0	0	0	0	353	3,250	2,574	72
Santa Clara University	658	0	0	0	0	0	0	0	89	151	418	0
Sonoma State University	44	0	0	0	0	0	0	0	0	44	0	0
Stanford University	247,992	0	30	35,604	2,456	859	16,692	2,298	114,486	48,483	27,417	267
U of Cal Sys Wide Prgms	3,882	0	3,702	0	0	0	0	0	180	0	0	0
Univ of Cal Berkeley	123,983	9,150	0	8,347	2,182	6,733	4,197	503	38,603	19,017	31,293	3,958
Univ of Cal Davis	68,952	3,682	0	1,160	408	698	10,091	511	39,541	1,402	9,353	2,106
Univ of Cal Irvine	53,429	0	0	8,310	994	0	4,045	190	29,122	1,459	9,309	0
Univ of Cal Los Angeles	176,735	189	76	9,213	152	1,030	17,707	81	121,225	7,176	19,367	519
Univ of Cal Riverside	11,498	1,157	0	278	0	187	1,513	317	4,406	276	3,329	35
Univ of Cal San Diego	165,224	325	564	21,227	606	0	4,078	138	96,271	12,314	28,681	1,020
Univ of Cal San Francisco	167,270	0	0	1,514	596	0	3,474	160	159,324	953	1,249	0
Univ of Cal Santa Barbara	41,661	281	57	13,176	1,070	492	3,116	421	4,376	2,422	15,026	1,224
Univ of Cal Santa Cruz	17,530	40	0	1,001	0	0	1,294	0	3,575	793	5,409	5,418
Univ of San Francisco	697	0	0	116	0	0	0	0	204	377	0	0
Univ of Southern Cal	122,734	0	684	34,238	3,946	162	1,428	727	65,483	5,454	10,346	266
University of the Pacific	817	0	0	0	0	0	0	0	660	0	157	0
University of San Diego	635	0	0	0	0	0	0	0	413	0	222	0
Westmont College	45	0	0	0	0	0	0	0	0	0	45	0
Colorado, total	168,905	6,030	10,243	13,738	146	822	7,171	1,831	80,860	15,595	30,233	2,236
Adams State College	49	0	0	0	0	0	0	0	0	0	49	0
Colorado College	44	0	0	0	0	0	0	0	0	0	44	0
Colorado School of Mines	3,185	0	0	675	0	0	1,057	75	0	0	1,047	331
Colorado State University	40,820	5,852	2,292	3,657	0	622	1,780	616	14,993	2,231	7,290	1,487
Fort Lewis College	50	0	0	0	0	0	0	0	0	0	50	0
Front Range Comm College	1	0	0	0	0	0	0	0	0	0	0	1
Metropoltn St Coll Denver	158	0	0	0	0	0	0	0	0	0	158	0
National Tech University	90	0	0	90	0	0	0	0	0	0	0	0
Regis College	4	0	0	0	0	0	0	0	0	0	4	0
Univ of Northern Colorado	874	0	0	0	0	0	0	0	87	0	787	0
Univ of Southern Colorado	305	0	0	0	0	0	0	0	0	305	0	0
University of Colorado	116,449	178	7,951	6,650	50	200	4,211	1,067	64,346	11,848	19,569	379
University of Denver	6,876	0	0	2,666	96	0	123	73	1,434	1,211	1,235	38
Connecticut, total	189,462	1,807	3,348	8,061	450	1,500	9,800	366	146,427	1,176	16,282	245
Connecticut College	162	0	0	0	0	0	0	0	113	0	49	0
Fairfield University	63	0	0	0	0	0	40	0	0	0	23	0
Quinnipiac College	244	0	0	0	0	0	0	0	244	0	0	0
Sacred Heart University	213	0	0	0	0	0	0	0	0	0	213	0
Southern Conn State Univ	226	0	0	0	0	0	0	0	0	0	226	0
St Joseph College	15	0	0	0	0	0	0	0	15	0	0	0
Trinity College	308	0	0	0	0	0	0	0	33	0	275	0
University of Connecticut	43,589	1,528	3,318	2,235	0	1,500	797	127	29,019	293	4,535	245
University of Hartford	195	0	0	0	0	0	0	57	0	0	138	0
University of New Haven	70	0	0	0	0	0	0	0	0	0	70	0
Wesleyan University	1,848	0	0	0	0	0	0	0	934	0	914	0
Western Conn State Univ	46	0	0	0	0	0	0	0	0	0	46	0
Yale University	142,483	279	30	5,826	450	0	8,963	182	116,077	883	9,793	0
Delaware, total	17,922	2,063	1,300	2,010	0	960	1,000	266	4,152	1,052	4,896	223
Delaware State College	545	545	0	0	0	0	0	0	0	0	0	0
University of Delaware	17,377	1,518	1,300	2,010	0	960	1,000	266	4,152	1,052	4,896	223
District of Columbia, total	78,658	1,027	346	7,231	454	7,879	1,354	586	44,848	4,339	9,363	1,231
American University	1,441	0	0	0	0	0	104	0	698	61	578	0
Catholic Univ of America	4,443	82	189	1,697	99	0	262	0	615	871	628	0
Gallaudet University	3,812	0	0	0	0	3,000	0	0	422	0	390	0
George Washington Univ	23,387	0	91	2,474	72	229	647	171	16,473	2,240	990	0
Georgetown University	28,740	355	13	2,158	206	1,218	295	345	22,147	0	1,083	920
Howard University	15,541	110	53	830	77	3,432	46	50	4,493	877	5,374	199
University of D C	1,294	480	0	72	0	0	0	20	0	290	320	112
Florida, total	181,474	9,036	4,557	14,268	5,081	1,048	17,553	2,506	88,487	7,809	27,483	3,646
Bethune Cookman College	5	0	0	0	0	0	0	0	0	0	5	0
Eckerd College	120	0	0	0	0	0	0	0	0	0	120	0
Embry-Riddle Aero Univ	548	0	0	0	0	0	0	0	0	101	266	181
Florida A & M University	4,542	1,330	0	583	152	0	16	0	1,224	181	994	62
Florida Atlantic Univ	2,374	0	4	341	69	0	69	0	733	505	478	175
Florida Inst of Tech	1,097	0	0	140	0	0	0	75	471	0	411	0
Florida International U	1,215	0	0	0	0	0	0	438	338	0	412	27
Florida State University	27,531	100	431	1,833	90	0	13,576	720	3,920	1,234	5,252	375
Nova University	1,177	0	0	163	0	0	0	0	224	0	790	0
Rollins College	44	0	0	0	0	0	0	0	0	0	44	0
State Univ Sys of Fla Off	1,862	0	1,717	0	0	0	145	0	0	0	0	0

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[Dollars in thousands]

State and institution	Total	USDA	Com	DOD Res. 1/	DOD Dev. 1/	Ed	DOE	EPA	HHS	NASA	NSF	Other 2/
Florida, cont'd												
Stetson University	24	0	0	0	0	0	0	0	0	0	24	0
Univ of Central Florida	6,672	0	0	2,067	2,319	0	210	100	380	1,108	468	20
Univ of South Florida	13,914	0	166	1,199	343	745	227	71	7,854	728	1,861	720
Univ of West Florida	531	0	0	0	0	0	0	404	0	0	127	0
University of Florida	56,063	7,606	107	3,944	2,073	0	2,871	698	26,938	2,235	7,545	2,046
University of Miami	63,707	0	2,132	3,979	35	303	439	0	46,405	1,717	8,657	40
University of North Fla	29	0	0	0	0	0	0	0	0	0	29	0
University of Tampa	19	0	0	19	0	0	0	0	0	0	0	0
Georgia, total	175,024	10,281	1,521	11,358	31,316	50	16,290	2,266	75,397	4,616	18,382	3,547
Agnes Scott College	28	0	0	0	0	0	0	0	0	0	28	0
Albany State College	39	0	0	0	0	0	0	0	0	0	39	0
Augusta College	41	0	0	0	0	0	0	0	0	0	41	0
Clark Atlanta University	7,947	0	0	1,367	233	0	4,340	0	48	302	1,657	0
Emory University	49,581	0	0	799	0	50	82	0	46,239	297	2,114	0
Fort Valley State College	2,014	1,759	0	0	0	0	203	0	52	0	0	0
Georgia Institute of Tech	54,271	0	297	7,622	30,924	0	1,227	817	2,609	3,433	6,559	783
Georgia Southern Univ	740	3	0	0	0	0	0	0	719	18	0	0
Georgia State University	5,877	0	0	129	0	0	57	0	2,306	154	799	2,432
Kennesaw College	77	0	0	0	0	0	0	0	77	0	0	0
Medical Col of Georgia	8,300	0	0	179	159	0	0	0	7,907	0	55	0
Mercer University	475	0	0	0	0	0	0	0	337	0	138	0
Morehouse College	391	0	0	169	0	0	0	0	213	0	0	9
Morehouse School of Med	4,911	0	0	0	0	0	0	289	4,572	0	50	0
Morris Brown College	172	0	0	54	0	0	14	0	104	0	0	0
Savannah State College	86	0	0	0	0	0	86	0	0	0	0	0
Spelman College	255	0	0	62	0	0	0	0	0	0	150	43
University of Georgia	39,767	8,519	1,224	977	0	0	10,281	1,160	10,214	412	6,700	280
Valdosta State College	52	0	0	0	0	0	0	0	0	0	52	0
Hawaii, total	48,276	4,340	6,556	3,536	0	0	1,784	0	10,130	5,775	12,828	3,327
Univ of Hawaii Sys Off	7,941	0	6,556	845	0	0	268	0	0	0	225	47
Univ of Hawaii-Manoa	40,049	4,158	0	2,691	0	0	1,516	0	10,130	5,775	12,603	3,176
Univ Hawaii at Hilo	286	182	0	0	0	0	0	0	0	0	0	104
Idaho, total	10,381	3,529	30	195	180	88	101	321	780	1,726	1,412	2,019
Boise State University	158	0	0	65	0	0	0	0	0	0	93	0
Idaho State University	770	27	0	0	0	0	36	0	94	0	0	613
North Idaho College	1	0	0	0	0	0	0	0	0	0	0	1
University of Idaho	9,452	3,502	30	130	180	88	65	321	686	1,726	1,319	1,405
Illinois, total	351,598	8,287	1,708	32,690	2,219	3,375	36,800	2,177	163,567	11,291	84,733	4,751
Augustana College	76	0	0	0	0	0	0	0	0	0	76	0
Bradley University	45	0	0	0	0	0	0	0	0	0	20	25
Chicago Col of Osteo Med	153	0	0	0	0	0	0	0	153	0	0	0
Chicago State University	101	0	0	0	0	0	0	0	0	89	12	0
City Colleges of Chicago	38	0	0	0	0	0	0	0	0	0	38	0
Columbia College	328	0	0	0	0	0	0	0	0	0	328	0
De Paul University	594	0	0	0	0	0	0	0	519	0	75	0
Eastern Illinois Univ	46	0	0	0	0	0	0	0	0	0	46	0
Illinois Inst of Tech	8,174	0	0	1,245	1,778	0	0	666	3,296	81	1,108	0
Illinois State University	1,770	0	0	0	0	0	0	0	756	0	1,014	0
Knox College	271	0	0	0	0	0	0	0	158	0	113	0
Lake Forest College	99	0	0	0	0	0	0	0	0	0	99	0
Lewis and Clark Cmty Col	251	0	0	0	0	0	0	0	0	0	251	0
Lincoln College	1,378	0	0	0	0	0	0	0	0	0	0	1,378
Loyola Univ - Chicago	7,513	13	0	321	0	0	20	97	5,844	0	1,213	5
Northeastern Ill Univ	210	10	0	0	0	0	0	0	0	0	200	0
Northern Illinois Univ	4,350	111	0	209	0	640	230	0	1,263	0	1,897	0
Northwestern University	61,100	50	15	6,761	0	1,351	3,816	0	35,994	1,135	11,887	91
Parkland College	124	0	0	0	0	0	0	0	0	0	124	0
Rush University	1,219	0	0	0	0	0	0	0	1,219	0	0	0
S Illinois U Edwardsville	630	0	0	0	0	0	0	0	199	0	324	107
Southern Ill U-Carbondale	6,536	688	0	760	0	125	75	0	3,339	159	1,139	251
U Hlth Sci/Chcgo Med Sch	3,371	0	0	0	0	0	0	0	3,266	0	105	0
Univ of Ill Chicago	42,293	9	0	2,860	190	759	541	301	30,429	419	5,310	1,475
Univ of Ill Urbana	99,742	7,268	0	14,821	167	0	12,380	810	16,979	3,923	42,113	1,281
Univ of Illinois Sys Off	6,377	88	1,500	3,343	84	500	426	303	0	0	0	133
University of Chicago	104,074	0	193	2,370	0	0	19,312	0	60,018	5,485	16,691	5
Western Illinois Univ	735	50	0	0	0	0	0	0	135	0	550	0
Indiana, total	138,349	9,298	0	5,508	56	257	14,258	1,612	59,013	3,285	37,860	7,202
Ball State University	346	0	0	0	0	0	0	0	211	0	135	0
Butler University	405	11	0	0	0	0	0	335	0	0	59	0
De Pauw University	35	0	0	0	0	0	0	0	0	20	15	0

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Indiana, cont'd												
Indiana State University	236	0	0	0	0	0	0	0	0	86	87	63
Indiana University	61,435	0	0	510	0	90	3,363	719	38,572	671	17,140	370
Purdue University	63,167	9,287	0	3,887	56	167	7,216	278	17,313	2,222	15,972	6,769
Rose-Hulman Inst of Tech	256	0	0	0	0	0	0	0	0	0	256	0
St Mary's College	4	0	0	0	0	0	0	0	0	4	0	0
University of Evansville	10	0	0	0	0	0	0	0	0	10	0	0
University of Notre Dame	12,302	0	0	1,111	0	0	3,546	280	2,917	252	4,196	0
Valparaiso University	153	0	0	0	0	0	133	0	0	20	0	0
Iowa, total	106,735	11,490	3,313	2,881	225	320	1,383	635	68,189	4,575	11,332	2,392
Briar Cliff College	21	0	0	0	0	0	0	0	21	0	0	0
Coe College	27	0	0	0	0	0	0	0	0	0	27	0
Dordt College	61	0	0	0	0	0	0	0	0	0	61	0
Drake University	15	0	0	0	0	0	0	0	0	0	15	0
Grinnell College	176	0	0	0	0	0	0	0	0	0	176	0
Iowa State University	28,915	11,417	3,232	880	0	72	825	243	4,259	441	5,155	2,391
Luther College	49	0	0	0	0	0	0	0	16	0	33	0
Maharishi Intl University	352	3	0	0	0	0	0	0	190	0	159	0
Univ of Northern Iowa	357	0	0	0	0	0	0	0	0	0	357	0
University of Iowa	76,762	70	81	2,001	225	248	558	392	63,703	4,134	5,349	1
Kansas, total	44,005	5,139	132	1,465	0	2,113	2,504	1,681	21,472	1,144	5,950	2,405
Bethel College	23	0	0	0	0	0	0	0	23	0	0	0
Kans St U - Ag & App Sci	14,470	5,129	0	674	0	0	2,063	1,628	1,660	45	2,919	352
Kansas City Kansas Cmty C	1	0	0	0	0	0	0	0	0	0	0	1
Southwestern College	25	0	0	0	0	0	0	0	25	0	0	0
St Mary College	13	0	0	0	0	0	0	0	0	0	13	0
Sterling College	10	10	0	0	0	0	0	0	0	0	0	0
University of Kansas	27,212	0	132	768	0	2,113	441	53	19,633	1,026	2,861	185
Wichita State University	2,251	0	0	23	0	0	0	0	131	73	157	1,867
Kentucky, total	38,185	8,634	22	330	224	0	3,270	332	19,116	619	4,898	740
Berea College	67	0	0	0	0	0	0	0	0	0	67	0
Centre College	4	0	0	0	0	0	0	0	0	0	4	0
Eastern Kentucky Univ	36	0	0	0	0	0	0	0	0	7	29	0
Kentucky State University	2,397	2,148	0	0	0	0	0	0	0	0	249	0
Murray State University	96	0	0	0	0	0	0	0	96	0	0	0
Northern Kentucky Univ	215	0	0	0	0	0	0	93	32	0	90	0
University of Kentucky	29,375	6,486	22	227	224	0	3,106	152	14,406	210	3,802	740
University of Louisville	5,779	0	0	103	0	0	164	87	4,461	402	562	0
Western Kentucky Univ	216	0	0	0	0	0	0	0	121	0	95	0
Louisiana, total	69,265	5,658	3,021	2,303	350	0	2,183	2,615	42,666	894	6,289	3,286
Dillard University	10	10	0	0	0	0	0	0	0	0	0	0
Grambling State Univ	557	0	0	199	0	0	0	0	181	0	137	40
Louisiana State Univ	40,886	3,750	2,996	1,325	350	0	1,704	2,535	22,572	710	4,480	464
Louisiana Tech University	371	146	25	41	0	0	99	0	0	0	60	0
Loyola Univ - New Orleans	4	0	0	0	0	0	0	0	0	0	4	0
LA St Univ System Office	550	0	0	0	0	0	220	0	0	0	0	330
McNeese State University	193	0	0	0	0	0	0	0	0	0	193	0
Northeast Louisiana Univ	170	0	0	0	0	0	0	80	0	23	67	0
Northwest State Univer	36	0	0	0	0	0	0	0	0	36	0	0
Southern U & A&M College	2,079	1,752	0	102	0	0	0	0	25	0	150	50
Tulane University	21,884	0	0	283	0	0	0	0	18,296	118	939	2,248
Univ of Southwestern LA	979	0	0	0	0	0	160	0	399	7	259	154
Xavier University of LA	1,546	0	0	353	0	0	0	0	1,193	0	0	0
Maine, total	10,197	3,057	2,210	213	0	0	77	1,082	608	250	1,931	773
Bates College	176	0	0	0	0	0	0	0	0	0	176	0
Bowdoin College	487	0	0	0	0	0	0	0	0	50	437	0
Colby College	212	0	0	0	0	0	0	0	0	91	121	0
College of the Atlantic	4	0	0	0	0	0	0	0	0	0	0	4
Univ of Maine Augusta	104	0	0	0	0	0	0	0	0	0	0	104
Univ of Maine Orono	6,401	2,860	0	141	0	0	77	1,082	429	109	1,038	665
Univ of Maine System Off	2,475	193	2,210	72	0	0	0	0	0	0	0	0
University of Sthrn Maine	338	0	0	0	0	0	0	0	179	0	159	0
Maryland, total	589,856	5,999	4,069	22,777	249,924	7,082	10,636	1,941	235,025	17,963	31,082	3,358
Allegany Community Col	4	0	0	0	0	0	0	0	0	0	4	0
Bowie State University	155	0	0	0	35	0	0	0	0	70	50	0
Charles County Cmty Col	9	0	0	0	0	0	0	0	0	9	0	0
Col of Notre Dame of MD	111	0	0	0	0	0	0	0	0	0	111	0
Coppin State College	25	0	0	0	0	0	0	0	25	0	0	0
Essex Community College	28	0	0	0	0	0	0	0	0	0	28	0

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Maryland, cont'd												
Frostburg State Univ	5	0	0	0	0	0	0	0	0	0	0	5
Johns Hopkins University	470,935	154	237	9,650	247,955	4,992	2,325	333	190,178	4,503	8,460	2,148
Loyola College	663	0	0	125	0	0	0	0	0	0	538	0
Morgan State University	1,041	0	0	0	0	0	130	0	0	386	401	124
Prince Georges Cmty Col	122	0	0	0	0	0	0	0	0	0	122	0
Towson State University	655	0	0	0	0	0	0	0	0	0	655	0
U of MD Baltimore County	4,018	0	0	43	0	0	36	0	2,090	240	1,514	95
U of MD Center for Ees	121	0	0	0	0	0	0	121	0	0	0	0
U of MD Eastern Shore	1,886	1,445	0	0	0	0	130	0	0	0	311	0
U of MD University Coll	20	20	0	0	0	0	0	0	0	0	0	0
Univ of Maryland Sys Off	4,162	560	0	3,122	0	0	30	0	400	0	0	50
Univ of MD Balt Prof Sch	41,100	0	0	1,518	726	0	226	464	37,431	0	735	0
Univ of MD College Park	64,723	3,820	3,832	8,319	1,208	2,090	7,759	1,023	4,901	12,755	18,080	936
Washington College	16	0	0	0	0	0	0	0	0	0	16	0
Western Maryland College	57	0	0	0	0	0	0	0	0	0	57	0
Massachusetts, total	635,891	15,021	4,896	89,056	12,975	2,725	60,385	5,715	283,414	28,923	124,325	8,456
Amherst College	960	0	0	0	0	0	0	0	354	0	606	0
Bentley College	190	0	0	0	0	0	0	0	0	0	190	0
Boston College	3,581	0	0	0	0	0	0	108	2,070	181	866	356
Boston University	59,380	0	100	2,392	3,966	1,052	2,331	100	41,385	988	7,066	0
Brandeis University	17,642	0	0	150	0	73	594	0	11,902	334	4,089	500
Clark University	1,456	0	0	134	0	0	91	50	90	0	504	587
Col of the Holy Cross	65	0	0	0	0	0	0	0	0	0	65	0
Emerson College	186	0	0	0	0	0	0	0	186	0	0	0
Hampshire College	188	0	0	0	0	0	0	0	51	0	137	0
Harvard University	148,055	0	65	5,509	1,500	500	5,317	935	108,223	3,801	19,361	2,844
Hellenic Col Holy Cross	108	0	0	0	0	0	0	0	108	0	0	0
Lesley College	347	0	0	0	0	0	0	0	0	0	347	0
Mass Inst of Technology	218,318	0	2,791	48,311	857	657	46,852	533	52,337	20,894	41,692	3,394
Mass State Col Sys Off	555	0	0	0	0	0	555	0	0	0	0	0
Merrimack College	28	0	0	0	0	0	0	0	0	0	28	0
Mount Holyoke College	958	0	0	0	0	66	60	0	42	52	738	0
Northeastern University	10,754	0	0	348	1,501	0	453	0	3,825	82	4,399	146
Radcliffe College	499	0	0	233	0	0	0	0	180	0	86	0
Regis College	131	0	0	131	0	0	0	0	0	0	0	0
Salem State College	25	0	0	0	0	0	0	0	25	0	0	0
Simmons College	414	0	0	0	0	0	0	0	362	0	52	0
Simon's Rock	99	0	0	0	0	0	0	0	25	0	74	0
Smith College	987	0	42	0	0	0	0	0	460	0	485	0
Southeastern Mass Univ	928	709	0	0	0	0	0	0	0	0	219	0
Tufts University	39,142	11,303	0	381	0	128	1,017	3,239	21,610	30	1,403	31
Univ of Mass System Off	328	112	216	0	0	0	0	0	0	0	0	0
University of Lowell	6,635	0	0	1,462	3,619	0	115	0	1,046	40	353	0
University of Massachuset	66,811	2,897	40	8,697	347	249	2,273	445	37,831	1,764	11,996	272
Wellesley College	1,607	0	0	97	0	0	0	0	712	119	520	159
Wentworth Inst of Tech	1,609	0	0	506	1,103	0	0	0	0	0	0	0
Western New England Col	95	0	0	10	0	0	0	0	0	0	85	0
Wheaton College	32	0	0	0	0	0	0	0	0	32	0	0
Wheelock College	377	0	0	0	0	0	0	0	20	0	357	0
Williams College	711	0	0	0	0	0	0	0	153	45	513	0
Woods Hole Ocngrphic Inst	50,751	0	1,623	20,420	0	0	601	301	224	407	27,175	0
Worcester Poly Institute	1,939	0	19	275	82	0	126	4	193	154	919	167
Michigan, total	274,276	14,228	1,704	15,678	907	3,503	11,846	2,358	155,239	13,884	48,718	6,211
Albion College	166	0	0	0	0	0	0	0	0	0	166	0
Andrews University	65	0	0	0	0	0	0	0	0	0	65	0
Calvin College	51	0	0	0	0	0	0	0	0	0	51	0
Central Michigan Univ	18	8	0	0	0	0	0	0	0	0	10	0
Eastern Michigan Univ	359	0	0	0	0	0	0	0	253	0	106	0
Grand Valley State Univ	211	0	0	0	0	0	0	0	0	0	211	0
GMI Engr/Management Inst	182	0	0	0	0	0	0	0	0	0	182	0
Hope College	489	0	0	0	0	0	0	0	103	0	386	0
Lawrence Technical Univ	68	0	0	0	0	0	0	0	0	0	68	0
Marygrove College	25	0	0	0	0	0	0	0	25	0	0	0
Michigan State University	56,619	12,815	116	1,932	26	1,960	3,440	404	14,495	634	17,977	2,820
Michigan Tech University	4,603	310	0	1,172	595	0	99	104	87	216	1,237	783
Northern Michigan Univ	2	2	0	0	0	0	0	0	0	0	0	0
Oakland Community College	88	0	0	45	0	0	43	0	0	0	0	0
Oakland University	2,110	0	0	0	0	0	0	0	1,879	0	231	0
Saginaw Valley State Col	2,800	0	0	0	0	0	0	0	0	2,800	0	0
University of Detroit	64	0	0	0	0	0	0	0	0	0	64	0
University of Michigan	176,620	1,079	1,588	11,573	211	464	7,878	1,775	114,759	9,849	24,904	2,540
Wayne State University	27,689	0	0	911	75	0	300	0	23,440	195	2,700	68
Western Michigan Univ	2,047	14	0	45	0	1,079	86	75	198	190	360	0

See explanatory material, if any, and SOURCE, at end of table.

Table 4. Federal obligations to universities and colleges for research and development, by State, institution, and agency: fiscal year 1990

[Dollars in thousands]

State and institution	Total	USDA	Com	DOD Res. 1/	DOD Dev. 1/	Ed	DOE	EPA	HHS	NASA	NSF	Other 2/
Minnesota, total	141,748	7,242	741	9,733	324	367	4,560	1,303	92,215	3,181	20,975	1,107
Augsburg College	119	0	0	0	0	0	0	0	0	45	74	0
Bethel College & Seminary	120	0	0	0	0	0	0	0	0	0	120	0
Carleton College	222	32	0	0	0	0	0	0	125	0	65	0
Gustavus Adolphus College	397	0	0	0	0	0	0	0	0	0	397	0
Macalester College	270	0	0	0	0	0	0	0	0	0	270	0
Mankato State University	105	0	0	0	0	0	0	0	92	0	13	0
Minn Cmty Col System Off	329	0	0	0	0	0	0	0	0	0	0	329
Moorhead State University	601	0	0	0	0	74	0	0	0	0	527	0
St Olaf College	548	0	0	0	0	0	0	0	0	0	548	0
St U Sys of Minn-Sys Off	1,437	0	0	0	0	0	0	0	1,437	0	0	0
Univ of Saint Thomas	105	0	0	0	0	0	0	0	80	0	25	0
University of Minnesota	137,495	7,210	741	9,733	324	293	4,560	1,303	90,481	3,136	18,936	778
Mississippi, total	36,277	10,476	1,557	1,845	80	757	5,115	0	8,545	1,251	4,684	1,967
Alcorn State University	1,463	1,463	0	0	0	0	0	0	0	0	0	0
Jackson State University	3,136	0	0	271	0	0	1,811	0	0	248	635	171
Miss Valley State Univ	10	0	0	0	0	0	0	0	0	10	0	0
Miss-Ala Sea Grant Cnsrtm	1,533	0	1,533	0	0	0	0	0	0	0	0	0
Mississippi College	38	0	0	0	0	0	0	0	38	0	0	0
Mississippi State Univ	17,128	8,004	24	458	40	757	3,127	0	623	690	3,037	368
Rust College	12	12	0	0	0	0	0	0	0	0	0	0
Univ of Sthrn Mississippi	1,436	48	0	635	0	0	0	0	110	0	643	0
University of Mississippi	11,521	949	0	481	40	0	177	0	7,774	303	369	1,428
Missouri, total	169,883	8,795	171	3,131	106	810	3,267	237	134,675	3,096	13,352	2,243
Avila College	10	0	0	0	0	0	0	0	10	0	0	0
Central Missouri St Univ	61	0	0	0	0	0	0	0	25	0	36	0
Drury College	15	0	0	0	0	0	0	0	0	0	15	0
Kirksville Col Osteo Med	211	0	0	0	0	0	0	0	211	0	0	0
Lincoln University (MO)	1,902	1,873	0	0	0	0	0	0	0	0	0	29
Southeast Missouri St U	646	0	0	0	0	0	0	0	0	0	646	0
Southwest Missouri St U	338	0	0	0	0	0	0	0	0	0	338	0
St Louis Community Col	25	0	0	0	0	0	0	0	25	0	0	0
St Louis University	13,183	0	127	197	0	0	0	0	11,209	55	729	866
Univ of Missouri Columbia	25,258	6,492	0	270	0	0	641	137	13,838	154	3,559	167
Univ of Missouri Kan City	3,600	0	0	105	0	64	106	0	3,051	0	269	5
Univ of Missouri Rolla	3,811	0	0	50	0	0	788	0	99	217	1,490	1,167
Univ of Missouri St Louis	1,647	0	0	65	0	0	0	0	333	30	1,219	0
Univ of Missouri Sys Off	1,258	31	44	428	0	746	0	0	0	0	0	9
Washington University	117,907	399	0	2,016	106	0	1,732	100	105,863	2,640	5,051	0
William Woods College	11	0	0	0	0	0	0	0	11	0	0	0
Montana, total	13,041	2,963	0	239	0	0	51	1,073	2,386	429	5,190	710
Eastern Montana College	91	0	0	0	0	0	0	0	0	0	91	0
Mont Col Minrl Sci & Tech	829	0	0	0	0	0	0	333	0	0	351	145
Montana State University	9,356	2,483	0	239	0	0	51	519	1,356	130	4,225	353
University of Montana	2,765	480	0	0	0	0	0	221	1,030	299	523	212
Nebraska, total	29,379	6,559	312	829	0	0	322	57	14,546	678	2,998	3,078
Chadron State College	299	0	0	0	0	0	0	0	0	0	299	0
Creighton University	2,689	0	0	100	0	0	0	0	2,526	0	63	0
Mid Plains Cmty Col Area	1	0	0	0	0	0	0	0	0	0	0	1
Nebraska Wesleyan Univ	44	0	0	0	0	0	0	0	0	0	44	0
U of Neb Med Ctr at Omaha	9,855	0	0	0	0	0	0	0	9,855	0	0	0
U Neb Ctrl Admin Sys Off	143	26	0	0	0	0	0	0	0	0	0	117
Univ of Nebraska at Omaha	401	0	0	0	0	0	0	0	122	0	175	104
Univ of Nebraska-Lincoln	15,947	6,533	312	729	0	0	322	57	2,043	678	2,417	2,856
Nevada, total	23,111	1,380	1,453	154	0	0	3,411	6,797	3,429	270	4,353	1,864
Desert Research Institute	4,983	0	504	0	0	0	2,837	535	0	60	1,047	0
U of Nev Sys Adm Sys Off	1,674	0	949	84	0	0	0	0	0	0	641	0
Univ of Nevada - Reno	9,784	1,380	0	70	0	0	574	405	3,429	210	2,446	1,270
Univ of Nevada Las Vegas	6,670	0	0	0	0	0	0	5,857	0	0	219	594
New Hampshire, total	52,386	1,966	2,617	2,712	0	0	1,281	844	27,689	9,195	5,826	256
Dartmouth College	31,409	230	0	2,121	0	0	576	0	25,718	854	1,910	0
Keene State College	91	0	0	0	0	0	0	0	91	0	0	0
Univ of New Hampshire	20,401	1,736	2,617	491	0	0	705	844	1,527	8,341	3,916	224
Univ Sys of N Hamp Sys Of	485	0	0	100	0	0	0	0	353	0	0	32

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[Dollars in thousands]

State and institution	Total	USDA	Com	DOD Res. 1/	DOD Dev. 1/	Ed	DOE	EPA	HHS	NASA	NSF	Other 2/
New Jersey, total	139,264	4,552	2,140	13,574	4,348	1,460	7,939	3,556	67,435	4,980	28,775	505
Drew University	24	0	0	0	0	0	0	0	0	0	24	0
Fairleigh Dickinson Univ	650	0	635	0	0	0	0	0	0	0	0	15
Monmouth College (NJ)	58	0	0	0	0	0	0	0	0	0	58	0
N J Inst of Technology	3,447	0	0	109	0	0	197	1,962	0	0	1,116	63
Princeton University	50,474	0	1,192	8,829	0	0	5,920	700	13,059	4,023	16,635	116
Rider College	147	0	0	0	0	0	0	0	110	37	0	0
Rutgers the St Univ of NJ	44,642	4,433	303	3,147	4,320	1,300	1,227	102	19,027	604	9,934	245
Seton Hall University	153	0	0	0	0	0	45	0	108	0	0	0
Stevens Institute of Tech	1,578	0	10	523	28	160	264	0	0	62	465	66
Univ of Med & Dent of N J	38,066	94	0	966	0	0	286	792	35,131	254	543	0
William Paterson College	25	25	0	0	0	0	0	0	0	0	0	0
New Mexico, total	69,397	2,383	0	5,722	12,390	0	9,985	264	11,859	17,535	8,914	345
N Mex Inst Mining & Tech	4,574	0	0	974	72	0	2,206	0	0	142	1,035	145
New Mexico Highlands Univ	97	0	0	0	0	0	0	0	0	0	97	0
New Mexico State Univ	45,177	2,380	0	3,970	12,248	0	6,135	84	406	16,324	3,462	168
San Juan College	26	0	0	0	0	0	0	0	0	10	0	16
University of New Mexico	19,523	3	0	778	70	0	1,644	180	11,453	1,059	4,320	16
New York, total	851,970	10,908	3,648	50,755	5,551	4,598	44,829	5,887	560,894	20,445	139,658	4,797
Adelphi University	218	0	0	0	0	0	0	0	218	0	0	0
Albany Medical College	6,056	0	0	0	0	0	0	0	5,999	0	57	0
Alfred University	306	0	0	0	0	0	0	0	0	0	306	0
Bank Street Col of Ed	800	0	0	0	0	800	0	0	0	0	0	0
Barnard College	511	0	0	0	0	0	0	0	425	0	86	0
Canisius College	270	0	0	0	0	0	0	0	94	0	176	0
Catholic Medical Center	1,113	0	0	0	0	0	0	0	1,113	0	0	0
Clarkson University	4,544	0	127	629	0	0	389	0	171	1,805	1,325	98
Colgate University	247	0	0	0	0	0	0	0	87	0	160	0
College of New Rochelle	798	0	0	0	0	0	0	0	0	0	798	0
Columbia U Teachers Col	800	0	0	0	0	800	0	0	0	0	0	0
Columbia Univ Main Div	153,171	5	736	8,899	1,164	175	6,807	480	98,778	5,498	29,042	1,587
Columbia Univ Sys Off	903	0	0	0	0	0	0	0	591	0	312	0
Cooper Union	12	0	0	0	0	0	0	0	0	0	12	0
Cornell University	144,749	9,868	282	13,835	0	0	4,445	1,287	64,480	5,345	43,554	1,653
CUNY Bernard Baruch Col	238	0	0	0	0	0	0	0	121	0	117	0
CUNY Brooklyn College	1,242	0	0	0	0	0	0	0	442	50	750	0
CUNY Central Sys Off	2,451	0	0	305	0	0	749	0	0	138	262	997
CUNY City College	10,418	0	0	448	0	0	924	0	3,599	408	5,039	0
CUNY Col Staten Island	439	0	0	158	0	0	0	0	252	0	29	0
CUNY Grad Sch & Univ Ctr	2,112	0	0	0	0	0	0	0	1,658	0	454	0
CUNY H.H. Lehman Coll	581	0	0	0	0	0	0	0	130	0	451	0
CUNY Hunter College	4,048	0	0	0	0	0	100	0	3,326	0	611	11
CUNY Jhn Jay Col Crim Jus	135	0	0	0	0	0	0	0	135	0	0	0
CUNY Mount Sinai Schl Med	43,954	0	0	0	0	291	101	86	43,109	216	151	0
CUNY NY City Tech Col	79	0	0	0	0	0	0	0	0	0	79	0
CUNY Queens College	1,946	0	0	0	0	0	138	0	1,231	0	577	0
Fordham University	1,252	0	0	0	0	0	0	0	1,127	0	125	0
Hamilton College	470	0	0	0	0	0	0	0	62	0	408	0
Hofstra University	235	0	0	29	0	0	0	0	114	92	0	0
Iona College	58	0	0	0	0	0	0	0	0	0	58	0
Ithaca College	335	0	0	0	0	0	0	0	0	0	335	0
Le Moyne College	50	0	0	25	0	0	0	0	0	0	25	0
Long Island University	355	0	0	0	0	0	0	0	0	0	355	0
Manhattan College	497	0	0	0	0	0	18	324	103	0	52	0
Marymount College (NY)	25	0	0	0	0	0	0	0	25	0	0	0
N Y Col of Podiatric Med	43	0	0	0	0	0	0	0	43	0	0	0
Nazareth Col of Rochester	25	0	0	0	0	0	0	0	25	0	0	0
New Sch for Soc Research	435	0	0	0	0	0	0	0	435	0	0	0
New York Medical College	10,080	0	0	0	0	0	74	0	9,808	58	138	2
New York University	75,749	0	0	4,484	0	176	3,933	958	59,067	422	6,709	0
Pace University	273	0	0	0	0	0	0	0	273	0	0	0
Polytechnic University	4,255	0	0	2,704	218	0	184	0	0	180	969	0
Rensselaer Polytech Inst	18,317	0	205	5,196	223	0	2,651	382	1,800	1,695	5,967	198
Rochester Inst Technology	1,806	0	0	0	0	1,602	0	0	0	104	100	0
Rockefeller University	35,423	0	0	146	0	0	1,185	15	33,391	0	686	0
Siena College	79	0	0	0	0	0	0	0	79	0	0	0
St John Fisher College	73	0	0	0	0	0	73	0	0	0	0	0
St John's University (NY)	391	0	0	0	0	0	0	0	387	0	4	0
St Lawrence University	23	8	0	0	0	0	0	0	0	0	15	0
Syracuse University	13,690	177	0	3,058	203	509	1,159	37	5,200	116	3,032	199
SUNY - Hlth Sci Brooklyn	14,334	0	0	0	0	0	0	0	14,168	0	166	0
SUNY - Hlth Sci Syracuse	10,504	0	0	0	0	0	0	0	10,264	0	240	0
SUNY at Albany	18,727	0	2,298	2,952	80	0	1,209	1,842	5,261	635	4,450	0
SUNY at Binghamton	3,278	0	0	0	0	0	136	0	1,472	215	1,455	0
SUNY at Buffalo All Cmps	36,291	0	0	1,725	372	0	694	52	27,119	1,213	5,116	0
SUNY at Stony Brook	45,868	0	0	325	0	0	3,509	0	26,451	1,967	13,564	52

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[Dollars in thousands]

State and institution	Total	USDA	Com	DOD Res. 1/	DOD Dev. 1/	Ed	DOE	EPA	HHS	NASA	NSF	Other 2/
New York, cont'd												
SUNY Ag & Tech Cobleskill	58	0	0	0	0	0	0	0	0	0	58	0
SUNY Col at Old Westbury	318	0	0	0	0	0	0	0	246	0	72	0
SUNY Col of Env Sci & For	654	388	0	0	0	0	0	0	0	0	266	0
SUNY College at Purchase	206	0	0	0	0	0	0	0	0	45	161	0
SUNY College Brockport	375	0	0	0	0	0	0	0	0	0	375	0
SUNY College Buffalo	724	0	0	455	0	0	0	0	0	0	269	0
SUNY College Cortland	101	0	0	0	0	0	0	0	0	0	101	0
SUNY College Geneseo	154	0	0	0	0	0	0	0	0	0	154	0
SUNY College New Paltz	183	0	0	0	0	0	0	0	135	0	48	0
SUNY College Oswego	18	0	0	0	0	0	0	0	0	18	0	0
SUNY College Plattsburgh	514	0	0	0	0	0	42	0	221	30	221	0
SUNY College Potsdam	188	0	0	0	0	0	0	0	0	0	188	0
SUNY Fashion Inst Tech	1,708	0	0	0	1,708	0	0	0	0	0	0	0
SUNY Hudson Val Cmty Col	100	0	0	0	0	0	0	0	0	0	100	0
SUNY Inst Tech Utica-Rome	84	0	0	0	0	0	0	0	66	0	18	0
SUNY St Col of Optometry	154	0	0	0	0	0	0	0	154	0	0	0
SUNY System Office	996	345	0	0	0	0	0	424	0	0	227	0
Un of NY Regents Col Deg	102	0	0	0	0	0	0	0	0	0	102	0
Union College (NY)	36	0	0	0	0	0	0	0	0	0	36	0
University of Rochester	102,453	117	0	5,148	1,583	170	16,309	0	70,798	195	8,133	0
Vassar College	717	0	0	0	0	0	0	0	319	0	398	0
Yeshiva University	67,045	0	0	234	0	75	0	0	66,322	0	414	0
North Carolina, total	305,255	12,150	871	15,597	2,728	1,765	6,958	6,762	213,230	7,315	32,861	5,018
Appalachian St University	653	0	0	0	0	0	0	110	100	0	443	0
Bennett College (NC)	106	0	0	0	0	0	0	0	106	0	0	0
Campbell University	8	8	0	0	0	0	0	0	0	0	0	0
Duke University	116,109	505	167	3,158	2,085	0	3,986	1,552	93,949	765	9,942	0
East Carolina University	3,406	0	0	557	0	0	0	0	2,750	0	99	0
Elizabeth City State Univ	88	0	0	0	0	0	0	0	0	0	88	0
Haywood Technical Inst	1	1	0	0	0	0	0	0	0	0	0	0
Johnson C Smith Univ	7	7	0	0	0	0	0	0	0	0	0	0
N C State Univ at Raleigh	43,466	9,081	353	7,160	577	500	1,816	1,679	5,111	3,979	9,709	3,501
North Carolina Cntrl Univ	395	0	0	357	0	0	0	38	0	0	0	0
NC Ag & Tech State Univ	6,078	2,413	0	1,026	30	0	77	75	100	1,653	554	150
Queens College	5	0	0	0	0	0	0	0	0	0	0	5
Shaw University	20	20	0	0	0	0	0	0	0	0	0	0
Univ of N C at Asheville	39	0	0	0	0	0	0	0	0	0	39	0
Univ of N C at Charlotte	1,750	0	70	40	36	0	93	0	262	100	1,149	0
Univ of N C at Greensboro	1,688	0	0	48	0	73	0	0	943	0	624	0
Univ of N C at Wilmington	657	0	0	0	0	0	0	0	121	0	536	0
Univ of N C Sys Off	1,490	0	0	176	0	0	0	0	0	0	0	1,314
Univ of NC at Chapel Hill	100,183	115	33	2,866	0	1,192	818	3,308	82,369	528	8,906	48
Wake Forest University	29,019	0	248	209	0	0	168	0	27,419	290	685	0
Western Carolina Univ	87	0	0	0	0	0	0	0	0	0	87	0
North Dakota, total	22,429	5,830	519	550	0	0	8,819	826	847	62	1,124	3,852
Fort Bethold Cmty College	2	0	0	0	0	0	0	0	0	0	0	2
North Dakota State Univ	7,297	4,885	0	550	0	0	0	0	0	0	656	1,206
University of N Dakota	15,130	945	519	0	0	0	8,819	826	847	62	468	2,644
Ohio, total	252,157	8,112	984	31,182	5,257	617	5,772	3,387	134,894	19,808	30,580	11,564
Baldwin-Wallace College	41	0	0	0	0	0	0	0	0	41	0	0
Bowling Green State Univ	1,091	0	0	0	0	0	55	0	439	0	597	0
Capital University	42	0	0	0	0	0	0	0	0	0	42	0
Case Western Reserve Univ	71,263	0	0	3,682	0	500	407	347	54,114	6,598	5,615	0
Central State University	605	0	0	0	301	0	11	0	76	145	72	0
Cleveland State Univ	4,122	0	0	0	0	0	0	0	1,288	2,834	0	0
Col Mt St Joseph-on-Ohio	83	0	0	0	0	0	0	0	83	0	0	0
College of Wooster	154	0	0	0	0	0	0	0	0	0	154	0
Cuyahoga Cmty Col Dist	24	0	0	0	0	0	0	0	0	24	0	0
Denison University	86	0	0	0	0	0	45	0	0	41	0	0
Heidelberg College	28	0	0	0	0	0	0	0	0	28	0	0
John Carroll University	318	0	0	0	0	0	0	0	0	202	116	0
Kent State University	3,727	0	15	361	0	71	112	0	992	335	1,841	0
Kenyon College	416	0	0	0	0	0	0	0	24	55	337	0
Lorain County Cmty Col	44	0	0	0	0	0	0	0	0	44	0	0
Med Col of Ohio at Toledo	5,885	0	0	0	0	0	0	198	5,616	0	71	0
Miami University (Ohio)	1,950	219	0	235	0	0	13	81	203	50	1,149	0
Muskingum Area Tech Col	28	0	0	0	0	0	0	0	0	0	28	0
Notre Dame College (OH)	100	0	0	0	0	0	0	0	0	0	100	0
NE Ohio Univs Med School	632	0	0	0	0	0	0	0	632	0	0	0
Oberlin College	307	0	0	0	0	0	0	0	84	25	198	0
Ohio Northern University	5	0	0	0	0	0	0	0	0	0	0	5
Ohio State University	80,401	7,781	909	4,205	342	0	4,088	1,465	33,191	4,568	14,511	9,341
Ohio University	4,233	102	0	525	0	0	425	0	723	235	684	1,539
Ohio Wesleyan University	105	0	0	101	0	0	0	0	0	0	4	0

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Table 4. Federal obligations to universities and colleges for research and development, by State, institution, and agency: fiscal year 1990

[Dollars in thousands]

State and institution	Total	USDA	Com	DOD Res. 1/	DOD Dev. 1/	Ed	DOE	EPA	HHS	NASA	NSF	Other 2/
Ohio, cont'd												
University of Akron	4,018	0	0	50	0	0	208	92	1,057	1,300	1,158	153
University of Cincinnati	38,674	0	0	2,476	0	46	295	565	30,270	2,118	2,594	310
University of Dayton	23,852	0	60	18,147	4,330	0	0	548	87	154	473	53
University of Toledo	2,602	0	0	0	0	0	113	0	1,248	871	207	163
Wilberforce University	10	10	0	0	0	0	0	0	0	0	0	0
Wittenberg University	70	0	0	0	0	0	0	0	0	70	0	0
Wright State University	7,147	0	0	1,400	284	0	0	91	4,673	70	629	0
Youngstown St University	94	0	0	0	0	0	0	0	94	0	0	0
Oklahoma, total	35,866	5,986	950	2,556	1,907	129	6,445	700	11,372	164	4,979	678
East Central University	167	0	0	0	0	0	0	167	0	0	0	0
Langston University	1,197	1,183	0	0	0	0	0	0	0	0	0	14
Northeastern State Univ	95	0	0	0	0	0	0	0	95	0	0	0
Okla Col Osteo Med & Surg	100	0	0	0	0	0	0	0	100	0	0	0
Oklahoma State University	15,052	4,803	0	1,804	1,907	0	3,388	100	733	0	1,950	367
Univ Sci & Arts of Okla	76	0	0	0	0	76	0	0	0	0	0	0
University of Oklahoma	17,802	0	950	752	0	0	2,670	295	10,201	164	2,473	297
University of Tulsa	1,377	0	0	0	0	53	387	138	243	0	556	0
Oregon, total	95,772	9,375	2,539	8,532	0	2,889	4,107	1,452	42,061	2,251	18,858	3,708
Eastern Oregon St College	397	0	0	0	0	0	0	0	0	0	397	0
Lewis & Clark College	93	0	0	0	0	0	0	0	0	0	93	0
Linfield College	105	0	0	0	0	0	0	0	0	0	105	0
Oregon Grad Inst Sci Tech	3,808	355	0	127	0	0	897	149	766	119	545	850
Oregon Hlth Sciences Univ	25,344	0	0	655	0	0	0	0	24,334	0	355	0
Oregon Institute of Tech	225	0	0	0	0	0	225	0	0	0	0	0
Oregon State University	44,542	8,856	2,509	6,374	0	0	1,136	1,249	8,260	1,948	11,493	2,717
Portland Community Col	3	0	0	0	0	0	0	0	0	0	0	3
Portland State University	2,286	14	30	0	0	742	110	0	509	0	881	0
Reed College	418	0	0	0	0	0	26	0	354	10	28	0
Southern Oregon St Col	5	0	0	0	0	0	0	0	0	0	5	0
Southwstern Oreg Cmty Col	3	0	0	0	0	0	0	0	0	0	0	3
University of Oregon Main	18,251	150	0	1,376	0	1,909	1,713	0	7,838	174	4,956	135
University of Portland	54	0	0	0	0	0	0	54	0	0	0	0
Western Oregon State Coll	238	0	0	0	0	238	0	0	0	0	0	0
Pennsylvania, total	536,674	8,384	780	57,981	58,552	5,147	18,707	3,910	294,998	12,796	66,056	9,363
Allegheny College	112	0	0	0	0	0	0	0	62	0	50	0
Bloomsburg Univ of Penn	49	0	0	0	0	0	0	0	0	0	49	0
Bryn Mawr College	629	0	0	0	0	0	0	0	389	0	240	0
Bucknell University	219	0	0	0	0	0	0	0	125	0	94	0
Cabrini College	52	0	0	0	0	0	0	0	0	0	52	0
Carnegie-Mellon Univ	50,025	125	0	14,078	8,373	0	3,873	0	5,986	2,778	14,389	423
Chestnut Hill College	152	0	0	0	0	0	0	0	0	0	152	0
Cmty Col of Philadelphia	2	0	0	0	0	0	0	0	0	0	0	2
Dickinson College	127	0	0	0	0	0	0	0	0	0	127	0
Drexel University	7,155	0	10	1,633	40	0	304	493	1,651	562	2,452	10
Duquesne University	80	0	0	0	0	0	0	0	80	0	0	0
Edinboro Univ of Penn	83	0	0	0	0	0	0	0	83	0	0	0
Franklin & Marshall Col	443	0	0	0	0	0	0	0	0	0	443	0
Gettysburg College	181	0	0	0	0	0	0	0	122	0	59	0
Hahnemann University	6,795	0	0	643	0	0	0	0	6,140	0	12	0
Haverford College	593	0	0	0	0	0	0	0	103	0	490	0
Indiana Univ of Penn	235	0	0	0	0	0	0	0	85	0	150	0
Juniata College	186	0	0	0	0	0	0	0	0	0	186	0
Kutztown Univ of Penn	66	0	0	0	0	0	0	66	0	0	0	0
La Salle University	73	0	0	73	0	0	0	0	0	0	0	0
Lafayette College	12	0	0	0	0	0	0	0	0	0	12	0
Lehigh University	10,825	44	266	2,102	0	159	1,693	300	828	237	5,156	40
Lincoln University (PA)	661	17	0	395	0	0	0	103	106	0	40	0
Millersville Univ of Penn	36	0	0	0	0	0	0	0	0	0	36	0
Pennsylvania Col Optomet	692	0	0	0	0	246	0	0	446	0	0	0
Pennsylvania State Univ	136,754	7,699	360	23,185	41,769	96	3,909	473	30,408	7,503	15,261	6,091
Phila Col of Pharm & Sci	314	0	0	0	0	0	0	0	314	0	0	0
Phila Col Osteopathic Med	74	0	0	0	0	0	0	0	74	0	0	0
Susquehanna University	9	0	0	0	0	0	0	0	0	0	9	0
Swarthmore College	1,364	0	0	0	0	0	0	0	0	51	1,313	0
Temple University	26,098	100	0	660	0	274	335	0	22,716	45	1,938	30
The Medical Col of Penna	12,588	0	0	123	0	0	0	0	12,465	0	0	0
Thomas Jefferson Univ	22,195	44	0	1,042	0	605	0	0	18,258	0	171	2,075
Univ of Pennsylvania	142,509	303	81	11,003	0	1,105	6,004	0	108,854	478	14,168	513
University of Pittsburgh	114,262	52	63	3,000	8,370	2,662	2,589	2,475	85,235	1,046	8,726	44
Villanova University	767	0	0	0	0	0	0	0	468	96	68	135
West Chester Univ of Penn	44	0	0	44	0	0	0	0	0	0	0	0
Westminster College (PA)	153	0	0	0	0	0	0	0	0	0	153	0
Widener University	60	0	0	0	0	0	0	0	0	0	60	0

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[Dollars in thousands]

State and institution	Total	USDA	Com	DOD Res. 1/	DOD Dev. 1/	Ed	DOE	EPA	HHS	NASA	NSF	Other 2/
Rhode Island, total	51,828	1,233	2,695	10,048	174	0	3,305	617	16,213	2,195	13,786	1,562
Brown University	33,342	0	62	7,051	0	0	3,265	0	12,093	1,244	8,531	296
Rhode Island College	47	0	0	0	0	0	0	0	20	0	27	0
Univ of Rhode Island	18,439	1,233	2,633	2,997	174	0	40	617	3,300	951	5,228	1,266
South Carolina, total	42,705	5,705	431	1,831	1,604	220	1,459	1,118	22,093	941	6,986	317
Baptist Col at Charleston	50	0	0	0	0	0	0	0	0	0	50	0
Benedict College	41	0	0	0	0	0	0	0	25	0	16	0
Citadel Military Col S C	16	0	0	0	0	0	0	0	0	16	0	0
Claflin College	195	0	0	0	0	0	146	0	49	0	0	0
Clemson University	10,457	4,312	71	937	1,466	0	140	248	630	892	1,488	273
College of Charleston	13	0	0	13	0	0	0	0	0	0	0	0
Erskine College	50	0	0	0	0	0	0	0	0	0	50	0
Francis Marion College	74	0	0	0	0	0	0	0	0	0	74	0
Furman University	234	0	0	0	0	0	0	0	67	0	167	0
Med Univ of So Carolina	13,779	170	0	0	0	107	0	0	13,274	0	228	0
South Carolina St College	1,5[illegible]	1,223	0	100	0	0	65	0	0	11	137	0
SC Sea Grant Consortium	0	0	30	0	0	0	0	0	0	0	0	0
Univ of South Carolina	16,[illegible]3	0	330	781	138	0	1,094	870	8,048	22	4,776	44
Voorhees College	[illegible]4	0	0	0	0	0	14	0	0	0	0	0
Winthrop College	[illegible]3	0	0	0	0	113	0	0	0	0	0	0
South Dakota, total	5,[illegible]91	2,430	0	30	0	0	0	0	627	372	1,798	534
Augustana College	102	0	0	0	0	0	0	0	0	0	102	0
Northern State University	10	0	0	0	0	0	0	0	0	0	0	10
Oglala Lakota College	178	0	0	0	0	0	0	0	178	0	0	0
S Dak Sch Mines & Tech	1,971	0	0	0	0	0	0	0	0	346	1,466	159
South Dakota State Univ	3,051	2,430	0	0	0	0	0	0	74	0	200	347
U of S D System Office	48	0	0	30	0	0	0	0	0	0	0	18
Univ of South Dakota	431	0	0	0	0	0	0	0	375	26	30	0
Tennessee, total	133,724	7,431	0	6,060	743	904	13,998	863	88,097	4,918	9,419	1,291
David Lipscomb University	20	0	0	0	0	0	0	0	0	0	20	0
East Tennessee State Univ	1,016	0	0	0	0	0	0	0	787	0	229	0
Fisk University	707	0	0	0	0	0	0	0	0	491	66	150
Le Moyne-Owen College	270	0	0	0	0	0	0	0	50	0	220	0
Meharry Medical College	6,608	0	0	514	84	0	155	203	4,147	0	1,505	0
Memphis State University	3,291	0	0	264	0	0	135	105	1,575	60	349	803
Middle Tennessee St Univ	146	0	0	0	0	0	46	0	100	0	0	0
Nashville State Tech Inst	20	0	0	0	0	0	0	0	0	0	20	0
Southern Col of Optometry	60	0	0	0	0	0	0	0	60	0	0	0
Tenn Technological Univ	750	0	0	0	0	0	121	110	47	15	355	102
Tennessee State Univ	3,988	2,046	0	50	0	0	14	0	1,359	348	171	0
Trevecca Nazarene College	17	0	0	0	0	0	0	0	0	0	17	0
Univ of Tenn System Off	1,487	0	0	733	659	0	70	0	25	0	0	0
Univ of Tennessee All Cmp	44,759	5,385	0	1,163	0	0	11,643	445	20,419	1,619	3,879	206
Vanderbilt University	70,585	0	0	3,336	0	904	1,814	0	59,528	2,385	2,588	30
Texas, total	469,460	21,839	4,358	36,334	22,805	1,142	26,584	4,281	264,463	29,162	48,276	10,216
Abilene Christian Univ	84	0	0	0	0	0	84	0	0	0	0	0
Baylor Col of Dentistry	715	0	0	0	0	0	0	0	715	0	0	0
Baylor Col of Medicine	72,260	7,962	0	677	0	757	384	0	61,753	727	0	0
Baylor University	1,823	0	0	0	406	0	0	0	843	5	566	3
Del Mar College	60	0	0	0	0	0	0	0	0	0	60	0
Houston Community College	173	0	0	0	0	0	173	0	0	0	0	0
Jarvis Christian College	125	0	0	50	0	0	0	0	75	0	0	0
Lamar University - Beaumo	1,718	0	0	0	0	0	0	1,590	0	107	21	0
Midwestern State Univ	38	5	0	0	0	0	0	0	0	0	33	0
Paul Quinn College	25	0	0	0	0	0	0	0	25	0	0	0
Prairie View A & M Univ	3,296	2,529	0	20	0	0	315	0	0	331	101	0
Rice University	15,015	0	106	2,110	0	0	2,001	520	2,288	1,762	6,196	32
Sam Houston State Univ	30	20	0	0	0	0	0	0	0	10	0	0
Southern Methodist Univ	6,549	0	0	4,961	0	0	184	0	750	87	567	0
Southwest Texas St Univ	652	0	0	0	0	0	0	82	501	53	16	0
St Edward's University	25	0	0	0	0	0	0	0	25	0	0	0
St Mary's Univ S Antonio	300	0	0	0	0	0	0	0	0	0	300	0
Stephen F Austin St Univ	222	222	0	0	0	0	0	0	0	0	0	0
Tarleton State University	53	0	0	0	0	0	0	0	0	0	53	0
Texas A & I University	230	15	0	0	0	0	66	0	79	40	30	0
Texas A & M Univ Sys Off	6,221	0	0	525	0	0	0	0	0	187	0	5,509
Texas A & M University	47,221	10,760	4,162	3,006	80	0	4,738	226	7,989	3,127	12,655	478
Texas Christian Univ	2,698	0	0	170	0	0	0	0	2,262	0	266	0
Texas Col of Osteo Med	2,488	0	0	0	0	0	0	0	2,299	60	129	0
Texas Southern Univ	1,795	0	0	0	0	0	20	0	1,280	461	29	5
Texas Tech University	5,602	74	0	991	191	0	483	590	2,187	200	886	0
Texas Woman's University	392	0	0	0	0	150	0	0	236	0	5	1

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Texas, cont'd												
Trinity University	562	0	0	35	0	0	0	0	249	0	278	0
U of Houston Downtown Col	996	0	0	0	0	0	771	225	0	0	0	0
U of Houston Sys Off	706	0	24	564	0	0	118	0	0	0	0	0
U of Houston Univ Park	13,370	30	0	1,774	0	0	817	0	3,947	4,456	2,321	25
U of Texas at San Antonio	1,608	0	0	0	0	0	0	0	89	102	1,417	0
U of TX - Pan America	176	0	0	82	0	0	0	0	94	0	0	0
U Tex Hlth Sci Ctr Houstn	29,943	80	0	0	0	0	0	0	28,877	674	312	0
U Tex Hlth Sci Ctr S Anto	33,306	0	0	108	278	0	0	0	32,281	0	639	0
U Tex Med Brnch Galveston	20,404	0	0	130	0	0	0	178	19,500	389	207	0
U Tex Sw Med Ctr - Dallas	50,504	0	0	125	0	0	0	0	48,789	1,208	382	0
U TX MD Anderson Cncr Ctr	30,650	0	0	0	0	0	18	146	30,322	0	164	0
Univ of North Texas	1,647	0	0	552	0	123	20	51	348	0	553	0
Univ of Tex at Arlington	1,929	0	0	962	150	0	0	25	197	218	377	0
Univ of Texas at Austin	93,401	142	66	17,886	21,446	0	15,584	648	13,401	6,397	14,573	3,258
Univ of Texas at Dallas	5,331	0	0	1,374	0	112	119	0	987	1,281	1,458	0
Univ of Texas at El Paso	4,488	0	0	232	254	0	111	0	491	70	3,202	128
Univ of Texas System Off	2,835	0	0	0	0	0	578	0	1,480	0	0	777
Univ Houstn Clr Lake City	7,456	0	0	0	0	0	0	0	104	7,210	142	0
University of Dallas	225	0	0	0	0	0	0	0	0	0	225	0
Wiley College	113	0	0	0	0	0	0	0	0	0	113	0
Utah, total	122,880	2,957	0	15,401	32,968	384	5,465	1,038	47,417	1,697	13,396	2,157
Brigham Young University	4,893	107	0	254	0	0	841	138	867	0	2,686	0
University of Utah	65,250	161	0	4,449	134	87	4,501	384	44,655	697	8,583	1,599
Utah State University	52,713	2,689	0	10,698	32,834	297	123	516	1,895	1,000	2,103	558
Weber State University	24	0	0	0	0	0	0	0	0	0	24	0
Vermont, total	31,687	2,980	0	203	152	0	588	0	26,000	116	1,504	144
Middlebury College	242	0	0	54	0	0	0	0	0	76	112	0
Norwich University	43	0	0	0	0	0	0	0	0	25	18	0
Univ of VT & St Agric Col	31,402	2,980	0	149	152	0	588	0	26,000	15	1,374	144
Virginia, total	166,017	6,974	3,379	13,213	1,426	2,006	11,550	2,006	80,710	16,604	19,933	8,216
College of William & Mary	5,157	0	941	204	0	0	262	219	151	1,343	2,037	0
Eastern Shore Cmty Col	350	0	0	0	0	0	0	0	0	0	0	350
Eastern VA Medical School	6,089	0	0	0	0	0	0	0	1,800	139	0	4,150
George Mason University	3,789	0	138	1,528	0	0	110	0	534	119	975	385
Hampden-Sydney College	54	0	0	0	0	0	54	0	0	0	0	0
Hampton University	5,094	0	0	1,098	101	0	309	0	429	1,963	1,191	3
James Madison University	184	0	0	0	0	0	0	0	0	0	184	0
Longwood College	35	0	0	0	0	0	0	0	0	35	0	0
Mary Baldwin College	12	0	0	0	0	0	0	0	0	0	12	0
Mountain Empire Cmty Col	25	0	0	0	0	0	0	0	0	0	25	0
Norfolk State University	205	0	0	0	0	0	58	0	0	147	0	0
Old Dominion University	6,193	0	0	202	0	0	457	0	172	3,999	1,363	0
Southside VA Cmty College	101	0	0	0	0	0	0	0	0	0	101	0
Thomas Nelson Cmty Col	15	0	0	0	0	0	0	0	0	15	0	0
Tidewater Community Col	371	0	0	0	371	0	0	0	0	0	0	0
University of Richmond	346	0	0	0	0	0	105	0	172	38	31	0
University of Virginia	60,796	1	2,139	4,281	683	1,346	2,812	569	35,100	4,238	8,945	682
Virginia Commonwlth Univ	42,678	0	0	924	0	660	242	152	39,751	411	538	0
Virginia Military Inst	25	0	24	0	0	0	0	0	0	0	1	0
Virginia State University	2,205	1,471	0	0	95	0	354	0	97	188	0	0
VA Polytech Inst & St U	32,239	5,502	137	4,976	176	0	6,787	1,066	2,504	3,969	4,476	2,646
Washington & Lee Univ	54	0	0	0	0	0	0	0	0	0	54	0
Washington, total	240,010	8,468	5,183	22,750	610	819	9,840	1,780	148,170	7,138	32,251	3,001
Eastern Washington Univ	295	0	0	0	0	0	0	0	103	162	0	30
Evergreen State College	259	0	0	0	0	0	0	0	0	0	259	0
Gonzaga University	184	0	0	0	0	0	0	0	85	0	99	0
Heritage College	25	0	0	0	0	0	0	0	25	0	0	0
Seattle Pacific Univ	24	0	0	0	0	0	0	0	0	0	24	0
Spokane Falls Cmty Col	8	0	0	0	0	0	0	0	0	0	0	8
University of Puget Sound	103	0	0	0	0	0	0	0	0	37	65	1
University of Washington	217,291	2,404	5,111	21,167	610	819	7,745	1,230	141,776	6,681	27,041	2,707
Walla Walla College	25	0	0	0	0	0	0	0	25	0	0	0
Washington State Univ	20,550	6,064	72	1,187	0	0	2,095	489	6,067	258	4,063	255
Western Washington Univ	1,210	0	0	396	0	0	0	61	89	0	664	0
Whitman College	36	0	0	0	0	0	0	0	0	0	36	0
West Virginia, total	22,240	4,225	0	211	0	0	5,278	1,934	5,503	359	1,333	3,397
Beckley College	958	0	0	0	0	0	958	0	0	0	0	0
Bethany College (WV)	89	0	0	0	0	0	0	0	0	0	89	0
Bluefield State College	50	0	0	0	0	0	0	0	0	0	0	50
Fairmont State College	33	0	0	0	0	0	0	0	0	0	33	0

See explanatory material, if any, and SOURCE, at end of table.

Table 4. Federal obligations to universities and colleges for research and development, by State, institution, and agency: fiscal year 1990

[Dollars in thousands]

State and institution	Total	USDA	Com	DOD Res. 1/	DOD Dev. 1/	Ed	DOE	EPA	HHS	NASA	NSF	Other 2/
West Virginia, cont'd												
Marshall University	1,600	25	0	0	0	0	0	0	1,567	0	8	0
Shepherd College	74	0	0	0	0	0	0	0	0	74	0	0
West Virginia State Col	242	0	0	0	0	0	0	0	0	88	0	154
West Virginia University	19,194	4,200	0	211	0	0	4,320	1,934	3,936	197	1,203	3,193
Wisconsin, total	198,712	7,778	2,345	7,729	57	2,573	16,647	994	107,744	13,063	36,789	2,993
Beloit College	133	0	0	0	0	0	0	0	0	133	0	0
Inst of Paper Sci & Tech	1,112	0	0	0	0	0	1,112	0	0	0	0	0
Lawrence University	165	0	0	0	0	0	0	0	0	0	165	0
Marquette University	2,871	200	0	71	0	0	82	34	1,069	373	1,042	0
Medical College of Wis	21,747	75	0	0	0	0	0	193	20,491	287	353	348
St Norbert College	14	0	0	0	0	0	0	0	0	14	0	0
Univ of Wis-Center System	515	0	0	0	0	0	515	0	0	0	0	0
Univ of Wis-Eau Claire	60	0	0	0	0	0	0	0	0	0	60	0
Univ of Wis-Green Bay	224	0	0	0	0	0	0	0	0	0	0	224
Univ of Wis-La Crosse	46	0	0	0	0	0	0	0	0	0	33	13
Univ of Wis-Madison	155,175	7,430	126	4,933	57	0	14,717	392	83,506	12,228	31,510	276
Univ of Wis-Milwaukee	7,625	0	0	1,370	0	0	205	0	2,241	28	2,309	1,472
Univ of Wis-Oshkosh	88	0	0	0	0	0	0	0	0	0	88	0
Univ of Wis-Parkside	379	0	0	79	0	0	0	0	232	0	68	0
Univ of Wis-River Falls	386	0	0	0	0	0	0	0	0	0	386	0
Univ of Wis-Stevens Point	191	0	0	0	0	0	0	0	0	0	189	2
Univ of Wis-Stout	673	0	0	0	0	673	0	0	0	0	0	0
Univ of Wis-Superior	479	0	0	0	0	0	0	375	0	0	104	0
Univ of Wis-Whitewater	43	0	0	0	0	0	16	0	0	0	27	0
Univ of Wisconsin Sys Off	6,786	73	2,219	1,276	0	1,900	0	0	205	0	455	658
Wyoming, total	9,731	1,632	0	1,042	0	32	324	70	1,004	259	4,545	823
Northwest College	38	0	0	0	0	0	0	0	0	0	38	0
University of Wyoming	9,677	1,632	0	1,042	0	32	324	70	1,004	259	4,507	807
Western Wyoming Cmty Col	16	0	0	0	0	0	0	0	0	0	0	16
Guam, total	1,320	1,004	58	0	0	0	0	0	97	0	57	104
University of Guam	1,320	1,004	58	0	0	0	0	0	97	0	57	104
Puerto Rico, total	18,000	4,110	594	535	27	0	27	0	8,135	200	4,268	104
Ponce School of Medicine	2,181	0	0	0	0	0	0	0	2,181	0	0	0
U Ctrl Del Caribe Esc Med	359	0	0	0	0	0	0	0	359	0	0	0
U P R - Regional Col Admn	373	0	0	0	0	0	0	0	0	0	373	0
Univ of the Sacred Heart	39	0	0	0	0	0	0	0	0	0	39	0
Univ of P R-Humacao U Col	13	0	0	0	0	0	0	0	0	0	13	0
Univ of P R-Mayaguez	6,248	4,110	0	143	27	0	27	0	0	200	1,637	104
Univ of P R-Med Sci Cmpus	5,691	0	0	221	0	0	0	0	5,458	0	12	0
Univ of P R-Rio Piedras	218	0	0	81	0	0	0	0	137	0	0	0
Univ of Puerto Rico Syste	2,878	0	594	90	0	0	0	0	0	0	2,194	0
American Samoa, total	592	592	0	0	0	0	0	0	0	0	0	0
American Samoa Cmty Col	592	592	0	0	0	0	0	0	0	0	0	0
Virgin Islands, total	1,053	917	0	0	0	0	0	0	0	0	32	104
U of the Virgin Islands	1,053	917	0	0	0	0	0	0	0	0	32	104
Trust Territory Pac Isl, total	829	829	0	0	0	0	0	0	0	0	0	0
Cmty Col of Micronesia	304	304	0	0	0	0	0	0	0	0	0	0
No Marianas College	525	525	0	0	0	0	0	0	0	0	0	0

1/ In this table, Department of Defense research (DOD Res.) is reported separately from DOD development (DOD Dev.). DOD states that more than 90 percent of its development reported for "universities and colleges" is performed at university-affiliated laboratories that are separate from the academic departments.

2/ Includes DOT, AID, HUD, Labor, NRC, and Interior.

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1990

Table 5. Federal obligations to universities and colleges, by type of activity and agency: fiscal years 1963-90 1/

[Dollars in millions]

Activity and year	Total	USDA	Com	DOD	OEO	Ed	DOE 2/	EPA	HHS	HUD	Int	AID	Labor	NASA	NSF	NRC	DOT
Total obligations																	
1963	1,413.0	104.0	1.8	218.0	-	-	76.1	-	665.3	-	4.0	-	-	87.4	256.3	-	-
1964	1,625.0	115.0	1.7	258.1	-	-	79.9	-	780.0	-	5.3	-	-	107.6	277.5	-	-
1965	2,305.5	135.6	2.6	267.9	-	-	84.4	-	1,345.6	-	9.7	-	-	134.3	325.2	-	-
1966	3,010.0	141.0	2.8	278.0	-	-	96.9	-	1,952.2	-	22.4	-	-	142.2	374.5	-	-
1967	3,317.7	144.8	7.9	264.1	-	-	109.6	-	2,237.8	-	27.4	-	-	131.5	394.5	-	-
1968	3,386.6	144.2	9.8	243.1	54.7	-	119.7	-	2,222.2	1.7	28.2	-	6.6	129.8	422.8	-	3.8
1969	3,462.4	155.9	3.9	278.7	60.4	-	121.0	-	2,302.4	1.1	24.3	10.0	10.4	127.2	367.0	-	-
1970	3,236.6	182.1	4.9	265.5	35.6	-	114.5	-	2,060.9	.6	27.7	10.9	5.2	131.2	387.4	-	10.1
1971	3,498.6	214.6	9.7	249.0	37.5	-	105.8	27.2	2,274.6	.7	22.6	19.1	5.2	134.1	387.7	-	10.8
1972	4,144.7	238.6	26.0	243.9	30.0	-	95.3	23.3	2,842.1	1.5	24.4	18.7	7.5	119.0	458.7	-	15.9
1973	3,839.1	256.8	28.6	232.9	30.1	-	96.2	27.7	2,576.3	.9	23.8	10.7	8.3	111.4	419.6	-	15.9
1974	4,480.4	260.7	29.5	184.4	10.0	-	99.5	30.9	3,250.4	2.9	23.8	19.9	7.2	98.9	449.6	-	12.8
1975	4,547.2	290.7	26.4	190.5	-	-	124.3	38.8	3,207.9	2.3	28.8	12.4	5.5	108.0	490.5	.1	20.8
1976	5,402.8	328.6	39.1	211.9	-	-	144.1	33.0	3,964.3	1.4	28.2	13.5	4.5	118.9	496.3	3.3	15.7
1977	6,489.7	346.7	32.5	267.3	-	-	211.8	46.3	4,817.0	4.3	29.5	24.4	7.2	121.0	565.8	4.7	11.4
1978	7,471.8	394.8	35.9	452.3	-	-	269.7	55.8	5,403.8	10.5	44.0	28.1	12.6	130.5	607.1	8.8	17.8
1979 3/...	7,603.9	427.0	47.3	528.7	-	-	274.9	68.1	3,935.0	4.0	40.1	28.5	13.7	143.9	671.6	6.9	11.4
1980	8,298.8	448.4	52.2	555.9	-	2,832.1	312.2	83.4	2,985.8	4.3	45.8	38.6	16.2	171.2	726.4	7.0	19.4
1981 3/...	8,640.9	495.6	51.8	748.2	-	2,269.8	315.7	70.6	2,749.8	3.0	38.7	31.3	15.1	183.5	695.1	7.4	29.0
1982 3/...	8,777.0	532.1	40.6	873.1	-	3,242.7	295.3	85.4	2,624.9	2.6	28.5	50.4	10.5	176.9	728.1	5.2	12.0
1983 3/...	9,344.6	570.0	51.0	954.4	-	1,726.0	328.1	51.2	2,809.7	1.5	35.8	43.4	9.5	203.8	798.8	4.8	28.4
1984	10,039.5	611.6	106.0	965.7	-	3,517.1	354.6	52.9	3,148.4	.4	45.8	56.3	7.1	216.6	935.6	4.9	16.6
1985	10,971.6	656.8	81.4	1,067.1	-	3,518.7	454.7	66.1	3,672.1	.4	44.4	57.0	6.8	251.0	1,078.7	5.4	11.2
1986	11,619.2	624.2	70.3	1,214.0	-	3,996.5	420.6	70.8	3,773.6	.3	50.8	44.3	6.5	270.3	1,055.8	3.8	17.3
1987	13,433.8	678.4	93.5	1,297.9	-	4,850.8	475.1	74.3	4,453.0	.5	46.5	53.3	11.1	309.8	1,069.5	3.9	16.0
1988	14,066.5	746.8	87.3	1,385.8	-	4,866.2	537.6	66.2	4,770.6	.1	53.1	48.5	10.9	363.7	1,102.1	3.6	24.2
1989	15,502.3	728.6	81.4	1,487.7	-	5,377.7	566.0	85.8	5,204.6	**	68.2	65.3	9.2	461.9	1,336.2	4.3	25.2
1990	15,204.6	769.8	115.6	1,342.2	-	4,656.7	572.6	93.6	5,506.0	.1	74.6	47.4	11.3	511.3	1,445.1	4.6	53.7
Total academic science & engineering																	
1963	1,328.5	104.0	1.8	218.0	-	-	76.1	-	581.0	-	3.8	-	-	87.4	256.3	-	-
1964	1,528.6	115.0	1.7	258.1	-	-	79.9	-	683.8	-	5.1	-	-	107.6	277.5	-	-
1965	1,816.2	135.6	2.6	267.9	-	-	84.4	-	856.5	-	9.6	-	-	134.3	325.2	-	-
1966	2,163.5	141.0	2.8	278.0	-	-	96.9	-	1,109.2	-	19.1	-	-	142.2	374.5	-	-
1967	2,323.8	144.8	4.4	264.1	-	-	109.6	-	1,251.0	-	23.9	-	-	131.5	394.5	-	-
1968	2,349.8	144.2	8.0	243.1	12.5	-	119.7	-	1,229.4	1.7	28.2	-	6.6	129.8	422.8	-	3.7
1969	2,361.4	155.9	2.2	278.7	9.3	-	121.0	-	1,261.8	1.1	24.3	3.9	9.1	127.2	367.0	-	-
1970	2,187.6	182.1	3.9	265.5	18.9	-	114.5	-	1,036.7	.5	27.7	5.5	3.5	131.2	387.4	-	10.1
1971	2,343.1	214.6	7.6	249.0	16.4	-	105.8	27.2	1,142.3	.7	22.6	19.1	5.2	134.1	387.7	-	10.8
1972	2,599.1	238.6	26.0	243.9	8.3	-	95.3	23.3	1,318.5	1.5	24.3	18.7	7.3	119.0	458.7	-	15.9
1973	2,464.4	256.8	28.4	232.9	8.7	-	96.2	27.7	1,225.0	.9	23.7	10.7	6.3	111.4	419.6	-	15.9
1974	2,737.0	260.7	29.4	184.4	4.1	-	99.5	30.9	1,515.4	.6	23.8	19.9	7.1	98.9	449.6	-	12.8
1975	2,805.8	290.7	25.8	190.5	-	-	124.3	38.8	1,467.3	2.3	28.8	12.4	5.5	108.0	490.5	**	20.8
1976	2,959.7	328.6	38.2	211.9	-	-	144.1	33.0	1,522.2	1.4	28.2	13.5	4.5	118.9	496.3	3.2	15.7
1977	3,351.3	343.2	32.5	267.3	-	-	208.1	46.3	1,686.5	4.3	29.5	24.4	7.2	121.0	565.8	4.5	10.9
1978	3,959.8	391.7	35.9	452.3	-	-	267.2	54.7	1,900.8	10.5	42.5	28.1	12.6	130.5	607.1	8.4	17.5
1979	4,472.7	422.5	47.3	528.7	-	-	273.9	66.7	2,216.0	4.0	40.1	28.5	11.1	143.9	671.6	6.9	11.4
1980	4,791.0	444.1	51.6	555.9	-	48.0	309.6	81.5	2,281.1	4.3	42.4	38.6	10.3	171.2	726.4	7.0	19.1
1981	5,062.9	491.4	51.8	726.0	-	56.1	310.4	67.5	2,363.6	3.0	34.2	31.3	12.9	183.5	695.1	7.4	28.5
1982	5,179.6	529.7	40.6	857.3	-	35.6	288.2	83.8	2,332.8	2.6	28.3	50.4	8.4	176.9	728.1	5.0	12.0
1983	5,690.6	566.0	51.0	940.2	-	34.9	320.0	50.3	2,602.2	1.5	32.0	43.4	6.4	203.8	798.8	4.7	25.4
1984	6,308.0	607.4	105.8	954.6	-	43.6	348.4	51.9	2,934.1	.2	32.2	56.3	3.1	216.6	935.6	4.6	13.6
1985	7,257.9	652.8	81.2	1,061.1	-	69.6	451.7	65.2	3,440.0	.2	33.1	57.0	3.4	251.0	1,078.7	5.4	7.6
1986	7,430.9	620.7	70.3	1,206.2	-	74.0	420.5	70.8	3,536.0	.1	40.9	44.3	3.7	270.3	1,055.8	3.8	13.6
1987	8,565.4	674.7	88.8	1,278.5	-	280.8	475.1	74.3	4,195.3	.1	39.4	53.3	8.3	309.8	1,069.5	3.9	13.4
1988	9,133.5	741.7	81.4	1,377.4	-	255.6	536.2	66.2	4,486.2	.1	41.6	48.5	8.0	363.7	1,102.1	3.6	21.4
1989	10,071.6	721.7	74.0	1,486.4	-	269.6	565.3	85.8	4,916.3	.0	56.2	65.3	6.5	461.9	1,336.2	4.3	22.1
1990	10,461.7	762.0	110.4	1,342.2	-	240.9	571.7	93.6	5,214.5	.1	60.5	47.4	8.6	511.3	1,445.1	4.6	48.8
Research and development																	
1963	829.5	40.6	1.5	218.0	-	-	68.3	-	332.9	-	3.8	-	-	59.8	104.6	-	-
1964	975.6	47.5	1.1	258.1	-	-	70.5	-	399.2	-	5.0	-	-	78.2	115.8	-	-
1965	1,095.0	59.1	2.1	267.9	-	-	74.8	-	441.9	-	9.5	-	-	100.6	139.2	-	-
1966	1,252.1	62.9	2.1	278.0	-	-	83.2	-	507.3	-	18.7	-	-	107.4	192.5	-	-
1967	1,301.2	64.0	3.4	264.1	-	-	89.7	-	577.0	-	23.9	-	-	109.0	170.2	-	-
1968	1,398.3	62.2	6.7	243.1	12.5	-	101.8	-	619.1	1.0	27.8	-	6.6	126.1	187.7	-	3.7
1969	1,474.7	63.6	1.7	278.7	9.3	-	103.1	-	667.1	1.0	23.5	3.9	9.1	122.3	191.5	-	-
1970	1,446.6	67.4	3.2	265.5	18.9	-	101.4	-	614.9	.5	27.1	5.5	3.5	127.4	201.2	-	10.1
1971	1,551.4	74.8	6.9	249.0	16.4	-	95.9	17.0	695.7	.7	21.3	17.1	3.3	128.5	216.9	-	8.0
1972	1,853.1	88.6	23.6	243.9	8.3	-	86.8	17.7	879.4	1.5	23.0	13.5	7.3	112.4	334.7	-	12.4
1973	1,870.7	93.8	24.9	232.9	8.7	-	85.2	18.6	903.8	.9	22.2	8.4	5.0	102.6	348.5	-	15.2

See explanatory material, if any, and SOURCE, at end of table.

Table 5. Federal obligations to universities and colleges, by type of activity and agency: fiscal years 1963-90 1/

[Dollars in millions]

Activity and year	Total	USDA	Com	DOD	OEO	ED	DOE 2/	EPA	HHS	HUD	Int	AID	Labor	NASA	NSF	NRC	DOT
Research and development																	
1974	2,085.2	96.7	26.6	184.4	3.4	-	94.6	24.1	1,129.0	0.6	22.2	18.4	5.6	92.0	376.1	-	11.5
1975	2,246.1	110.5	22.2	190.5	-	-	119.2	33.8	1,205.2	2.3	27.2	8.3	4.0	100.2	404.6	.0	18.1
1976	2,431.0	124.2	29.0	211.9	-	-	138.1	29.3	1,296.2	1.4	25.7	10.7	3.0	106.8	436.6	3.2	14.9
1977	2,803.0	142.2	32.2	267.3	-	-	187.2	45.0	1,452.1	4.3	27.4	20.2	7.2	113.7	491.0	3.8	9.6
1978	3,385.8	175.3	35.0	452.3	-	-	251.1	51.1	1,657.6	10.5	34.3	24.9	12.6	124.7	531.5	8.4	16.4
1979	3,873.5	193.8	45.9	528.7	-	-	256.4	60.9	1,956.5	4.0	35.3	28.0	11.1	137.2	587.8	6.5	11.4
1980	4,160.5	211.8	50.4	555.9	-	48.0	279.6	76.9	2,025.6	4.3	38.8	38.6	10.3	161.3	633.9	6.1	19.1
1981	4,410.9	241.4	51.1	700.5	-	56.1	281.8	64.2	2,112.8	3.0	30.2	31.3	12.9	173.9	616.8	7.0	27.8
1982	4,554.5	256.5	39.7	813.7	-	35.6	265.2	78.1	2,110.6	.5	21.5	50.4	8.4	167.7	689.8	5.0	11.7
1983	5,024.3	273.9	50.1	913.3	-	34.9	296.6	45.3	2,360.3	1.1	20.8	43.4	6.4	189.4	759.1	4.7	25.1
1984	5,448.8	273.0	75.6	827.8	-	43.6	317.1	47.3	2,681.4	.2	32.2	56.3	3.1	203.8	869.6	4.6	13.2
1985	6,246.2	300.4	79.7	908.9	-	69.6	373.1	61.9	3,098.6	.2	32.9	57.0	3.4	237.3	1,011.1	4.9	7.2
1986	6,456.7	290.1	68.3	1,055.0	-	72.2	346.9	67.9	3,212.1	.1	40.9	44.3	3.7	254.0	983.9	3.8	13.3
1987	7,241.0	296.0	87.6	1,098.9	-	85.2	371.6	67.1	3,835.3	.1	39.4	53.3	8.3	293.6	987.5	3.9	13.2
1988	7,719.2	321.3	75.8	1,194.2	-	69.6	407.6	64.1	4,128.3	.1	39.1	48.5	8.0	339.5	998.3	3.6	21.3
1989	8,522.6	336.0	66.0	1,220.6	-	68.6	448.7	77.5	4,512.0	.0	52.8	65.3	6.5	435.7	1,206.6	4.3	21.9
1990	9,031.0	349.1	97.3	1,196.9	-	71.3	512.4	87.1	4,774.5	.1	57.8	47.4	8.6	470.7	1,304.6	4.6	48.6
R&D plant																	
1963	105.9	0.0	0.0	0.0	-	-	2.6	-	39.2	-	0.1	-	-	13.4	50.6	-	-
1964	100.8	.0	.0	.0	-	-	4.0	-	39.9	-	.0	-	-	9.1	47.8	-	-
1965	126.2	3.2	.0	.0	-	-	3.8	-	54.8	-	**	-	-	8.4	56.0	-	-
1966	114.8	2.0	.0	.0	-	-	7.4	-	48.5	-	.2	-	-	7.4	49.3	-	-
1967	111.3	2.0	.3	.0	-	-	13.8	-	38.1	-	.0	-	-	5.0	52.1	-	-
1968	96.1	1.9	.2	.0	.0	-	11.9	-	36.9	.0	.0	-	.0	.0	45.3	-	.0
1969	54.5	1.2	.0	.0	.0	-	11.4	-	20.5	.0	**	.0	.0	.0	21.4	-	-
1970	44.8	1.1	**	.0	.0	-	7.1	-	20.0	.0	.0	.0	.0	.0	16.5	-	.0
1971	29.9	.0	.0	.0	.0	-	4.8	.0	15.2	.0	.0	.0	.0	.2	9.7	-	.0
1972	36.9	.0	.0	.0	.0	-	4.1	.0	22.2	.0	.0	.0	.0	.6	10.0	-	.0
1973	43.3	.0	.3	.0	.0	-	5.6	.0	26.7	.0	.2	.0	.0	3.0	7.4	-	.0
1974	29.0	.0	.0	.0	.0	-	4.2	.0	14.5	.0	.0	.0	.0	.1	10.2	-	.0
1975	44.8	.0	.0	.0	-	-	4.2	.0	22.9	.0	.0	.0	.0	.1	17.6	.0	.0
1976	23.9	.0	1.0	.0	-	-	5.6	.0	11.4	.0	.0	.0	.0	.1	5.9	.0	.0
1977	36.5	.0	.0	.0	-	-	17.5	.0	11.1	.0	.0	.0	.0	**	7.3	.0	.5
1978	34.3	.0	.0	.0	-	-	13.4	**	9.9	.0	.0	.0	.0	.0	11.0	.0	**
1979	32.1	.0	.0	.0	-	-	9.1	.0	7.5	.0	.0	.5	.0	.2	14.7	.0	.0
1980	37.8	.0	.0	.0	-	.0	20.6	.0	4.4	.0	.0	.0	.0	.2	12.6	.0	.0
1981	27.7	.0	.0	1.1	-	.0	19.6	.0	2.0	.0	.0	.0	.0	.1	4.9	.0	.0
1982	31.2	.0	.0	.5	-	.0	18.8	1.4	5.4	.0	.0	.0	.0	.2	4.9	.0	.0
1983	37.5	9.6	.0	.0	-	.0	17.2	.1	1.5	.0	.0	.0	.0	1.5	7.7	.0	.0
1984	49.8	9.6	.0	.0	-	.0	29.5	.1	.7	.0	.0	.0	.0	.3	9.7	.0	.0
1985	113.9	9.6	.0	**	-	.0	77.7	.1	11.4	.0	.0	.0	.0	.2	14.9	.0	.0
1986	105.8	9.1	1.2	.0	-	1.8	73.0	.0	4.2	.0	.0	.0	.0	.4	16.0	.0	.0
1987	229.9	68.4	.1	.0	-	49.2	102.9	.0	4.2	.0	.0	.0	.0	.6	7.4	.0	.0
1988	202.9	68.0	.0	.0	-	1.3	127.7	.0	.0	.0	.0	.0	.0	.6	5.4	.0	.0
1989	237.0	31.1	1.2	57.9	-	1.3	115.5	.0	22.0	.0	.0	.0	.0	1.2	6.7	.0	.0
1990	124.8	45.1	.1	.0	-	.0	57.2	.0	13.7	.0	.0	.0	.0	1.3	7.5	.0	.0
Facilities for instruction																	
1971 4/	28.7	.3	.0	.0	.0	-	2.3	.0	13.9	.0	.1	.0	.0	.0	12.1	-	.0
1972	26.3	.5	.0	.0	.0	-	1.9	.0	20.9	.0	.0	.0	.0	.0	3.0	-	.0
1973	13.4	.0	.0	.0	.0	-	2.3	.0	9.4	.0	.1	.0	.0	.0	1.6	-	.0
1974	3.5	.0	.0	.0	.0	-	.0	.0	.4	.0	**	.0	.0	.0	3.1	-	.0
1975	5.0	.0	.1	.0	-	-	.0	.0	4.9	.0	.0	.0	.0	.0	**	.0	.0
1976	3.2	.0	.3	.0	-	-	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0
1977	3.3	.0	.0	.0	-	-	.4	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0
1978	4.9	.0	.0	.0	-	-	1.3	.0	.0	.0	**	.0	.0	.0	3.5	.0	.0
1979	6.7	.0	.0	.0	-	-	3.5	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0
1980	3.8	.0	.0	.0	-	.0	.9	.1	.0	.0	.0	.0	.0	.0	2.8	.0	.0
1981	4.6	.0	.0	.2	-	.0	1.1	**	.0	.0	.0	.0	.0	.0	3.2	.0	.0
1982	.8	.0	.0	**	-	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1983	2.5	.0	.0	**	-	.0	2.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
1984	1.9	.0	1.6	.3	-	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1985	4.9	.0	.0	.0	-	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.1	.0
1986	5.0	.0	.0	.0	-	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0
1987	13.7	.0	.0	.0	-	5.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	.0	.0
1988	13.4	.0	2.5	.0	-	.0	.0	.0	.0	.0	.4	.0	.0	.0	10.5	.0	.0
1989	16.9	.0	1.6	.0	-	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.3	.0	.0
1990	19.2	.0	4.5	.0	-	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.7	.0	.0

See explanatory material, if any, and SOURCE, at end of table.

Table 5. Federal obligations to universities and colleges, by type of activity and agency: fiscal years 1963-90 1/

[Dollars in millions]

Activity and year	Total	USDA	Com	DOD	OEO	ED	DOE 2/	EPA	HHS	HUD	Int	AID	Labor	NASA	NSF	NRC	DOT
Fellowships, traineeships, & trng grnts																	
1966 4/...	365.6	-	.0	-	-	-	3.2	-	289.9	-	.0	-	-	25.0	47.5	-	-
1967	447.2	-	.0	-	-	-	3.7	-	379.2	-	.0	-	-	15.0	49.4	-	-
1968	430.9	-	.0	-	.0	-	3.6	-	387.0	-	.0	-	.0	.9	49.4	-	.0
1969	436.3	-	.0	-	.0	-	5.5	-	375.7	-	.0	-	.0	1.3	53.8	-	-
1970	429.4	-	.0	-	.0	-	5.0	-	369.6	-	.0	-	.0	2.1	52.7	-	.0
1971	421.0	.0	**	.0	.0	-	2.6	10.1	361.4	.0	**	.0	.6	1.0	42.3	-	2.8
1972	387.9	.0	.4	.0	.0	-	2.0	5.6	346.6	.0	.0	.0	.0	1.1	28.8	-	3.5
1973	287.2	.0	.6	.0	.0	-	2.3	9.2	256.8	.0	.0	.0	.0	1.3	16.4	-	.7
1974	326.6	.0	**	.0	.7	-	.5	6.8	301.5	.0	.0	.0	.0	1.2	14.4	-	1.3
1975	201.3	.0	**	.0	-	-	.7	5.0	181.7	.0	.0	.0	.0	1.3	9.7	.0	2.7
1976	174.9	.0	.0	.0	-	-	.1	3.6	155.6	.0	.0	.0	.0	1.3	13.4	**	.8
1977	184.7	.0	.0	.0	-	-	.2	1.3	165.9	.0	.0	.0	.0	1.4	14.8	.1	.8
1978	205.9	.0	.0	.0	-	-	.7	3.6	184.2	.0	3.2	.6	.0	1.3	11.7	**	.6
1979	204.9	.0	.0	.0	-	-	1.9	4.5	182.3	.0	.3	.0	.0	1.8	14.1	.0	.0
1980	210.1	.0	.0	.0	-	.0	.0	4.5	187.6	.0	1.4	.0	.0	2.8	13.8	.0	.0
1981	205.4	.0	.0	.0	-	.0	.0	2.4	183.5	.0	.9	.0	.0	3.7	14.8	.1	.0
1982	176.6	.0	.0	.0	-	.0	.3	2.5	151.9	.0	.0	.0	0	4.2	17.5	.0	.4
1983	189.6	.2	.2	.7	-	.0	.2	2.6	164.0	.0	.0	.0	.0	5.2	16.2	.0	.3
1984	194.9	.2	.1	.0	-	.0	.6	1.8	164.6	.0	.0	.0	.0	5.3	21.8	.0	.4
1985	253.1	7.0	0.1	0.8	-	0.0	0.4	2.1	210.9	0.0	0.0	0.0	0.0	5.6	25.8	0.0	0.4
1986	246.2	4.7	.0	.5	-	.0	.6	2.8	204.3	.0	.0	.0	.0	7.9	25.2	.0	.2
1987	290.9	4.7	.6	2.3	-	11.8	.6	1.8	232.5	.0	.0	.0	.0	8.7	27.7	.0	.2
1988	309.3	4.6	2.6	1.5	-	13.5	.7	2.0	239.3	.0	.0	.0	**	15.8	29.2	.0	.0
1989	340.5	4.6	1.2	.1	-	22.9	.9	8.3	256.2	.0	.0	.0	**	13.0	33.0	.0	.2
1990	409.9	7.8	.7	.1	-	28.4	1.6	3.5	304.9	.0	**	.0	.0	21.7	41.0	.0	.1
General support for science and engineering																	
1971 4/...	99.7	0.0	0.2	0.0	0.0	-	0.0	0.0	40.2	0.0	1.1	0.0	1.2	0.0	56.9	-	0.0
1972	83.3	.0	1.5	.0	.0	-	.0	.0	40.7	.0	1.2	5.2	.0	.0	34.7	-	.0
1973	39.0	.0	.0	.0	.0	-	.0	.0	20.2	.0	1.3	2.3	.9	.0	14.2	-	.0
1974	87.0	.0	.5	.0	.0	-	.0	.0	64.2	.0	1.6	1.5	1.4	.0	17.8	-	.0
1975	46.4	.0	1.8	.0	-	-	.0	.0	37.3	.0	1.6	4.2	1.5	.0	.0	.0	.0
1976	74.5	.0	4.4	.0	-	-	.0	.0	41.8	.0	2.4	2.8	1.5	.0	21.6	.0	.0
1977	75.9	.0	.0	.0	-	-	2.5	.0	42.0	.0	1.8	4.1	.0	.0	24.8	.7	.0
1978	74.4	.0	.0	.0	-	-	.3	.0	45.0	.0	5.0	.0	.0	.0	23.8	.0	.3
1979	92.5	4.7	0	.0	-	-	**	1.3	52.8	.0	4.4	.0	.0	.0	29.4	.0	.0
1980	91.5	.0	.0	.0	-	0.0	5.6	.0	60.1	.0	2.3	.0	.0	.0	23.2	.4	.0
1981	92.7	.0	.0	7.1	-	.0	.0	.9	60.0	.0	3.1	.0	.0	.0	21.0	.0	.7
1982	80.1	.0	.0	4.8	-	.0	**	1.7	61.3	2.0	6.8	.0	.0	.0	3.5	.0	.0
1983	94.8	.0	.0	3.2	-	**	3.7	1.6	73.6	.4	11.2	.0	.0	.0	1.2	.0	.0
1984	112.6	.0	20.3	3.7	-	.0	.6	2.7	83.9	.0	.0	.0	.0	.0	1.5	.0	.0
1985	119.2	.0	**	1.8	-	.0	.4	1.1	112.5	.0	.3	.0	.0	.0	3.0	.0	.0
1986	111.1	.0	**	2.1	-	.0	.0	.0	106.1	.0	.0	.0	.0	.0	2.8	.0	.0
1987	236.9	.0	.0	5.9	-	108.1	.0	4.3	113.1	.0	.0	.0	.0	.0	5.5	.0	.0
1988	171.8	.0	.0	2.5	-	54.8	.2	.0	109.0	.0	2.1	.0	.0	.0	3.4	.0	.0
1989	197.7	.0	.0	1.8	-	80.2	.0	.0	109.5	.0	3.3	.0	.0	.0	2.9	.0	.0
1990	142.5	.0	1.0	.0	-	28.7	.5	3.1	102.2	.0	2.7	.0	.0	.0	4.3	.0	.0
Other science & engineering activities																	
1963	393.1	63.4	.3	.0	-	-	5.3	-	208.9	-	**	-	-	14.1	101.1	-	-
1964	452.2	67.5	.6	.0	-	-	5.4	-	244.6	-	**	-	-	20.2	113.9	-	-
1965	595.0	73.3	.6	.0	-	-	5.9	-	359.8	-	**	-	-	25.4	130.1	-	-
1966	431.0	76.1	.7	.0	-	-	3.1	-	263.4	-	.2	-	-	2.3	85.2	-	-
1967	464.0	78.8	.7	.0	-	-	2.5	-	256.7	-	**	-	-	2.4	122.8	-	-
1968	414.5	80.1	1.0	.0	.0	-	2.5	-	186.4	.7	.4	-	.0	2.8	140.5	-	**
1969	395.9	91.1	.5	**	.0	-	1.0	-	190.4	.1	.9	.0	.0	3.7	100.2	-	-
1970	266.8	113.5	.7	**	.0	-	1.0	-	32.2	.0	.6	.0	.0	1.7	117.0	-	.0
1971	212.4	139.5	.5	.0	.0	-	.3	.0	15.9	.0	.0	2.0	.1	4.2	49.9	-	.0
1972	211.6	149.5	.6	.0	.0	-	.5	.0	8.6	.0	.0	.0	.0	4.9	47.5	-	.0
1973	210.8	163.0	2.7	.0	.0	-	.8	.0	8.0	.0	.0	.0	.4	4.5	31.4	-	.0
1974	205.7	164.0	2.2	.0	.0	-	.2	.0	5.7	.0	.0	.0	.0	5.7	27.9	-	.0
1975	262.3	180.2	1.7	.0	-	-	.1	.0	15.3	.0	.0	.0	**	6.4	58.6	**	.0
1976	282.2	204.4	3.6	.0	-	-	.3	.0	17.1	.0	.1	.0	.0	10.7	16.0	.0	.0
1977	248.0	201.0	.3	.0	-	-	.3	.0	15.4	.0	.3	.0	.0	5.9	24.9	.0	.0
1978	254.5	216.4	.9	.0	-	-	.3	.0	4.1	.0	.0	2.6	.0	4.4	25.6	.0	.2
1979	263.0	224.0	1.5	.0	-	-	3.0	.1	6.9	.0	.0	.0	.0	4.7	22.4	.4	.0
1980	287.2	232.3	1.2	.0	-	.0	2.8	.0	3.4	.0	.0	.0	.0	6.9	40.2	.5	.0
1981	321.5	250.0	.7	17.1	-	.0	7.9	**	5.3	.0	**	.0	.0	5.7	34.4	.4	**
1982	336.4	273.2	.8	38.2	-	.0	3.1	.2	3.6	**	.0	.0	.0	4.8	12.4	.0	.0

See explanatory material, if any, and SOURCE, at end of table.

Table 5. Federal obligations to universities and colleges, by type of activity and agency: fiscal years 1963-90 1/

[Dollars in millions]

Activity and year	Total	USDA	Com	DOD	OEO	Ed	DOE 2/	EPA	HHS	HUD	Int	AID	Labor	NASA	NSF	NRC	DOT
Other science & engineering activities																	
1983	331.8	282.3	.6	22.9	-	.0	**	.5	2.8	.1	**	.0	.0	7.8	14.8	.0	.0
1984	500.1	324.7	8.2	122.8	-	.0	.7	**	3.5	.0	.0	.0	**	7.1	33.0	.0	.0
1985	520.5	335.7	1.4	149.5	-	.0	.1	.0	6.5	.0	.0	.0	**	7.9	19.0	.3	**
1986	506.0	316.8	.8	148.5	-	.0	**	.0	9.1	.0	.0	.0	.0	7.9	22.9	.0	**
1987	553.0	308.6	.6	171.4	-	21.4	.0	1.1	10.3	.0	.0	.0	.0	6.9	32.7	.0	.0
1988	716.8	347.9	.5	179.3	-	116.4	.0	.0	9.6	.0	.0	.0	.0	7.8	55.3	.0	.1
1989	756.9	349.9	3.8	206.1	-	96.6	.1	.0	16.5	.0	.0	.0	.0	12.0	71.8	.0	.0
1990	734.2	360.0	6.8	145.2	-	112.4	.0	.0	19.2	.0	.0	.0	.0	17.5	73.0	.0	.0
Non-science & engineering activities																	
1963	84.5	.0	.0	.0	-	-	.0	-	84.3	-	.2	-	-	.0	.0	-	-
1964	96.4	.0	.0	.0	-	-	.0	-	96.2	-	.2	-	-	.0	.0	-	-
1965	489.3	**	.0	.0	-	-	.0	-	489.1	-	.1	-	-	.0	.0	-	-
1966	846.4	**	.0	.0	-	-	.0	-	843.1	-	3.4	-	-	.0	.0	-	-
1967	993.9	**	3.5	.0	-	-	.0	-	986.8	-	3.5	-	-	.0	.0	-	-
1968	1,036.8	.0	1.8	.0	42.2	-	.0	-	992.8	.0	.0	-	.0	.0	.0	-	.1
1969	1,101.0	.0	1.8	**	51.1	-	.0	-	1,040.6	**	.0	6.1	1.3	.0	.0	-	-
1970	1,049.0	.0	1.0	**	16.7	-	.0	-	1,024.2	**	.0	5.4	1.7	.0	.0	-	.0
1971	1,155.5	.0	2.0	.0	21.1	-	.0	.0	1,132.3	.0	**	.0	.0	.0	.0	-	.0
1972	1,545.6	.0	.0	.0	21.7	-	.0	.0	1,523.5	.0	.1	.0	.2	.0	.0	-	.0
1973	1,374.7	.0	.1	.0	21.3	-	**	.0	1,351.2	.0	.1	.0	2.0	.0	.0	-	.0
1974	1,743.4	.0	.1	.0	5.9	-	.0	.0	1,735.0	2.2	.0	.0	.1	.0	.0	-	.0
1975	1,741.4	.0	.7	.0	-	-	.0	.0	1,740.6	.0	**	.0	.0	.0	.0	.1	.0
1976	2,443.1	.0	.9	.0	-	-	.0	.0	2,442.1	.0	.1	.0	.0	.0	.0	**	.0
1977	3,138.4	3.5	.0	.0	-	-	3.7	.0	3,130.5	.0	.0	.0	.0	.0	.0	.2	.5
1978	3,512.0	3.2	.0	.0	-	-	2.5	1.1	3,503.1	.0	1.5	.0	.0	.0	.0	.4	.2
1979 3/...	3,131.2	4.5	.0	.0	-	-	1.0	1.4	1,719.1	.0	.0	.0	2.6	.0	.0	**	.0
1980	3,507.8	4.3	0.6	0.0	-	2,784.0	2.7	1.9	704.7	0.0	3.3	0.0	5.9	0.0	0.0	**	0.3
1981 3/...	3,578.1	4.2	.0	22.2	-	2,213.8	5.3	3.1	386.2	.0	4.5	.0	2.2	.0	.0	**	.5
1982 3/...	3,597.4	2.4	.0	15.8	-	3,207.1	7.1	1.6	292.1	.0	.2	.0	2.1	.0	.0	0.2	.0
1983 3/...	3,664.0	4.0	.0	14.2	-	1,691.1	8.1	.9	207.5	.0	3.9	.0	3.1	.0	.0	.1	3.0
1984	3,731.5	4.2	.2	11.1	-	3,473.4	6.2	1.0	214.3	.2	13.5	.0	3.9	.0	.0	.3	3.0
1985	3,713.7	4.0	.2	6.0	-	3,449.1	3.0	.9	232.1	.2	11.3	.0	3.4	.0	.0	.0	3.6
1986	4,188.4	3.5	.0	7.8	-	3,922.5	**	.0	237.7	.2	10.0	.0	2.8	.0	.0	.0	3.8
1987	4,868.3	3.7	4.7	19.4	-	4,570.0	**	.0	257.7	.3	7.1	.0	2.9	.0	.0	.0	2.6
1988	4,933.1	5.1	6.0	8.4	-	4,610.6	1.4	.0	284.4	.0	11.6	.0	2.9	.0	.0	.0	2.8
1989	5,430.7	6.9	7.4	1.3	-	5,108.2	.7	.0	288.4	**	12.0	.0	2.7	.0	.0	.0	3.1
1990	4,742.9	7.7	5.3	.0	-	4,415.8	.8	.0	291.5	**	14.1	.0	2.7	.0	.0	.0	5.0

- Indicates not available.

** Indicates amount less than $50,000.

1/ See footnote 1 at end of Table 1.

2/ Data shown for fiscal years 1963-74 and fiscal years 1975-77 represent obligations of the Atomic Energy Commission and the Energy Research and Development Administration, respectively.

3/ The total figures for "total" obligations and "non-science and engineering" obligations were estimated on the basis of revised data from the Department of Education. The data reported under the Department of Education columns for "total" and "non-science and engineering" obligations, however, were not revised because new detail was not available for individual institutions.

4/ Data collected before this year are not separately identified but are included under "other science and engineering activities".

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1990

Table 6. Federal obligations to universities and colleges, by geographic division and State: fiscal years 1983-90

[Dollars in thousands]

Geographic division and State	1983 1/	1984	1985	1986	1987	1988	1989	1990
United States, total	9,344,618	10,039,468	10,971,593	11,619,243	13,433,783	14,066,510	15,502,301	15,204,563
New England, total	766,441	966,950	1,056,037	1,088,619	1,174,983	1,206,431	1,321,470	1,320,297
Connecticut	143,239	181,372	206,377	197,087	231,719	231,478	248,533	244,813
Maine	17,369	37,740	35,021	37,829	42,533	38,712	45,750	43,585
Massachusetts	505,988	603,339	665,491	691,989	724,731	742,505	839,682	827,049
New Hampshire	27,660	36,771	41,580	44,557	55,356	53,292	55,679	70,324
Rhode Island	45,342	62,053	66,828	73,428	72,131	77,967	78,324	81,925
Vermont	26,843	45,675	40,740	43,729	48,513	62,477	53,502	52,601
Middle Atlantic, total	1,225,240	1,604,269	1,740,096	1,814,007	2,129,924	2,314,463	2,329,839	2,298,741
New Jersey	102,200	153,243	162,619	171,673	187,917	204,581	224,745	230,188
New York	746,615	963,879	1,027,688	1,055,110	1,297,802	1,367,822	1,342,319	1,277,984
Pennsylvania	376,425	487,147	549,789	587,224	644,205	742,060	762,775	790,569
East North Central, total	1,059,208	1,425,449	1,567,179	1,646,293	1,912,374	1,911,678	2,187,648	2,145,079
Illinois	303,009	389,210	451,905	464,929	565,116	541,870	604,137	586,019
Indiana	131,860	191,087	205,299	208,978	216,780	219,807	256,735	271,864
Michigan	224,945	306,049	310,407	329,715	408,922	433,177	503,019	464,864
Ohio	227,119	310,416	343,214	372,105	410,374	412,776	461,694	490,328
Wisconsin	172,275	228,687	256,354	270,566	311,182	304,048	362,063	332,004
West North Central, total	462,097	695,600	756,245	809,974	951,665	970,064	1,105,342	1,053,935
Iowa	88,429	126,339	137,393	151,369	187,190	196,382	220,887	199,314
Kansas	47,235	75,766	91,090	87,016	115,017	113,502	128,654	104,321
Minnesota	117,829	176,973	194,911	215,114	237,634	240,476	295,934	264,550
Missouri	132,339	185,121	194,242	209,222	244,417	254,409	284,354	288,256
Nebraska	31,096	59,508	63,329	65,148	78,139	74,875	80,646	78,377
North Dakota	22,866	39,129	39,577	42,262	44,556	54,401	50,960	75,436
South Dakota	22,303	32,764	35,703	39,843	44,712	36,019	43,907	43,681
South Atlantic, total	1,437,794	1,853,000	1,991,994	2,096,439	2,422,721	2,602,742	2,827,223	2,762,192
Delaware	17,272	22,787	22,676	21,826	23,802	27,618	29,704	31,393
District of Columbia	265,836	298,112	306,263	292,741	307,618	307,405	309,452	326,093
Florida	152,503	207,064	215,260	238,537	311,472	358,838	396,804	348,458
Georgia	154,530	199,748	215,384	243,431	276,159	304,772	316,845	294,322
Maryland	424,407	523,864	573,326	602,952	691,090	761,456	804,615	805,554
North Carolina	216,673	293,593	312,939	330,537	395,400	412,890	473,274	465,915
South Carolina	52,464	88,714	102,681	107,436	137,818	126,927	136,683	120,735
Virginia	130,223	171,182	196,052	205,191	221,963	233,223	281,204	297,855
West Virginia	23,886	47,936	47,413	53,788	57,399	69,613	78,642	71,867
East South Central, total	383,272	534,940	578,076	637,408	739,605	755,924	818,676	842,960
Alabama	123,405	177,720	187,290	221,934	251,515	249,118	262,716	277,316
Kentucky	62,301	99,680	111,787	115,801	119,942	124,882	144,745	144,600
Mississippi	55,963	86,582	90,461	99,653	144,632	146,500	157,578	144,588
Tennessee	141,603	170,958	188,538	200,020	223,516	235,424	253,637	276,456
West South Central, total	520,722	728,834	804,209	862,889	1,028,310	1,131,628	1,285,890	1,237,178
Arkansas	38,698	58,480	62,892	66,562	74,954	84,001	97,141	100,948
Louisiana	76,876	124,840	138,287	151,017	172,732	199,174	254,787	222,509
Oklahoma	52,728	79,334	91,892	98,231	117,163	127,973	127,343	132,585
Texas	352,420	466,180	511,138	547,079	663,461	720,480	806,619	781,136
Mountain, total	407,875	544,124	583,843	615,353	725,130	783,767	897,991	890,589
Arizona	78,286	100,477	113,011	113,918	153,147	163,702	186,363	175,490
Colorado	114,901	154,088	167,710	171,849	205,268	230,491	248,105	257,136
Idaho	12,796	31,163	22,884	23,242	31,917	39,011	49,910	41,739
Montana	18,905	23,397	25,361	28,611	37,488	34,262	40,921	44,755
Nevada	12,204	14,907	18,284	19,692	25,893	20,986	27,383	35,768
New Mexico	78,598	102,783	101,449	120,338	109,082	110,641	126,652	112,413
Utah	77,719	97,097	112,771	124,664	142,526	163,120	194,328	203,344
Wyoming	14,466	20,212	22,373	13,039	19,809	21,554	24,329	19,944
Pacific, total	1,189,808	1,484,992	1,659,769	1,774,161	2,050,783	2,138,490	2,466,087	2,389,816
Alaska	11,917	18,093	18,500	24,498	22,524	23,955	24,845	33,247
California	882,330	1,056,025	1,200,802	1,271,140	1,471,977	1,540,181	1,769,867	1,728,020
Hawaii	36,522	38,299	50,421	47,676	58,671	58,779	84,753	71,225
Oregon	85,300	125,405	126,494	158,692	195,602	181,597	214,803	180,424
Washington	173,739	247,170	263,552	272,155	302,009	333,978	371,819	376,900
Outlying Areas, total	163,996	201,310	234,145	274,100	298,288	251,323	262,135	263,776
Guam	2,687	2,443	6,153	5,711	11,105	4,203	4,530	4,150
Puerto Rico	156,643	191,938	219,555	259,211	278,117	240,524	250,706	249,379
American Samoa	892	2,021	625	810	1,169	768	921	1,555
Virgin Islands	2,314	1,713	2,768	2,009	4,942	3,093	3,040	3,299
Trust Territory Pac Isl	1,460	3,195	5,044	6,359	2,955	2,735	2,938	5,393

1/ Total obligations were estimated on the basis of revised data from the Department of Education.

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1990

Table 7. Federal obligations to universities and colleges, by agency and type of activity: fiscal year 1990

[Dollars in thousands]

Agency	Total obligations	Academic science and engineering							Non-science & engineering activities
		Total academic science & engineering	Research and development	R&D plant	Facilities for instruction in science & engineering	Fellowships, traineeships, & training grants	General support for science & engineering	Other science & engineering activities	
Total	15,204,563	10,461,699	9,031,047	124,841	19,241	409,871	142,532	734,167	4,742,864
Department of Agriculture	769,763	762,026	349,121	45,091	0	7,832	0	359,982	7,737
Department of Commerce	115,648	110,391	97,251	71	4,538	673	1,037	6,821	5,257
Department of Defense, total	1,342,190	1,342,190	1,196,878	0	0	100	0	145,212	0
Army	168,190	168,190	167,520	0	0	0	0	670	0
Navy	776,506	776,506	631,937	0	0	100	0	144,469	0
Air Force	234,951	234,951	234,878	0	0	0	0	73	0
Other DOD	162,543	162,543	162,543	0	0	0	0	0	0
Department of Education	4,656,709	240,924	71,301	0	0	28,444	28,739	112,440	4,415,785
Department of Energy	572,562	571,719	512,376	57,209	0	1,613	521	0	843
Environmental Protection Agency	93,622	93,622	87,104	0	0	3,466	3,052	0	0
Department of Health & Human Services	5,506,001	5,214,535	4,774,514	13,656	0	304,940	102,221	19,204	291,466
National Institutes of Health	4,530,087	4,530,087	4,141,165	13,656	0	254,069	102,221	18,976	0
Health Resources and Services Administration	269,761	13,701	9,110	0	0	4,591	0	0	256,060
Alcohol, Drug Abuse, and Mental Health Administration	575,888	553,516	525,184	0	0	28,104	0	228	22,372
Centers for Disease Control	51,504	40,523	29,632	0	0	10,891	0	0	10,981
Food and Drug Administration	7,568	7,568	7,568	0	0	0	0	0	0
Administration for Children & Families	20,192	20,192	17,529	0	0	2,663	0	0	0
Health Care Financing Administration	7,414	7,414	7,414	0	0	0	0	0	0
Social Security Administration	4,102	4,102	4,102	0	0	0	0	0	0
Office of the Assistant Secretary for Health	2,209	565	565	0	0	0	0	0	1,644
Agency for Toxic Substances & Disease Registry	503	94	94	0	0	0	0	0	409
Indian Health Service	2,277	2,277	0	0	0	2,277	0	0	0
Agency for Health Care Policy Research	33,579	33,579	31,234	0	0	2,345	0	0	0
Other DHHS	917	917	917	0	0	0	0	0	0
Department of Housing and Urban Development	115	100	100	0	0	0	0	0	15
Department of the Interior	74,578	60,460	57,755	0	0	9	2,696	0	14,118
Agency for International Development	47,389	47,389	47,389	0	0	0	0	0	0
Department of Labor	11,293	8,638	8,638	0	0	0	0	0	2,655
National Aeronautics and Space Administration	511,250	511,250	470,746	1,345	0	21,696	0	17,463	0
National Science Foundation	1,445,079	1,445,079	1,304,613	7,469	14,703	40,983	4,266	73,045	0
Nuclear Regulatory Commission	4,626	4,626	4,626	0	0	0	0	0	0
Department of Transportation	53,738	48,750	48,635	0	0	115	0	0	4,988

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1990

Table 8. Federal obligations to universities and colleges, by geographic division, State, and agency: fiscal year 1990

[Dollars in thousands]

Geographic division and State	Total	USDA	Com	DOD	Ed	DOE	EPA	HHS	Int	NASA	NSF	Other 1/
United States, total	15,204,563	769,763	115,648	1,342,190	4,656,709	572,562	93,622	5,506,001	74,578	511,250	1,445,079	117,161
New England, total	1,320,297	40,622	16,470	125,315	240,146	90,785	8,691	565,653	2,987	42,939	177,053	9,636
Connecticut	244,813	4,234	3,905	8,511	33,862	10,532	368	163,640	104	1,198	18,244	215
Maine	43,585	5,760	2,254	228	29,095	77	1,082	1,678	728	250	2,388	45
Massachusetts	827,049	18,721	4,938	103,282	123,298	74,205	5,757	323,264	1,002	29,769	134,482	8,331
New Hampshire	70,324	3,682	2,663	2,712	13,532	1,281	853	29,767	256	9,301	6,114	163
Rhode Island	81,925	2,600	2,710	10,227	25,211	4,102	617	18,365	753	2,305	14,216	819
Vermont	52,601	5,625	0	355	15,148	588	14	28,939	144	116	1,609	63
Middle Atlantic, total	2,298,741	51,624	9,765	193,871	584,087	77,155	13,850	1,033,440	6,259	40,978	278,183	9,529
New Jersey	230,188	8,439	2,186	18,092	72,741	8,277	3,876	78,176	305	5,057	32,749	290
New York	1,277,984	22,793	6,743	56,379	309,042	49,032	6,013	626,219	2,281	21,453	175,423	2,606
Pennsylvania	790,569	20,392	836	119,400	202,304	19,846	3,961	329,045	3,673	14,468	70,011	6,633
East North Central, total	2,145,079	103,727	7,361	101,390	760,144	90,222	13,981	709,276	3,430	65,790	259,563	30,195
Illinois	586,019	20,910	1,918	34,940	185,094	37,646	2,246	190,587	764	12,109	95,818	3,987
Indiana	271,864	18,634	115	5,564	113,468	15,247	1,647	66,495	439	3,644	39,692	6,913
Michigan	464,864	27,382	1,804	16,654	151,946	13,091	2,744	177,224	712	14,506	53,212	5,589
Ohio	490,328	19,257	1,059	36,446	202,274	5,918	5,484	153,988	680	22,092	32,156	10,974
Wisconsin	332,004	17,544	2,465	7,786	107,362	18,320	1,860	120,982	835	13,439	38,679	2,732
West North Central, total	1,053,935	122,106	5,795	19,369	403,287	21,042	5,034	379,708	10,335	13,822	62,277	11,160
Iowa	199,314	28,300	3,357	3,126	65,521	1,383	722	77,475	599	4,936	12,012	1,883
Kansas	104,321	14,728	291	1,465	48,617	2,504	1,681	25,043	314	1,329	6,168	2,181
Minnesota	264,550	17,054	841	10,101	98,383	4,658	1,490	105,128	845	3,247	22,541	262
Missouri	288,256	21,200	215	3,266	90,146	3,267	243	149,843	2,176	3,198	14,579	123
Nebraska	78,377	15,848	387	829	34,706	322	72	18,166	562	678	3,860	2,947
North Dakota	75,436	17,297	604	552	37,562	8,908	826	2,457	2,539	62	1,134	3,495
South Dakota	43,681	7,679	100	30	28,352	0	0	1,596	3,300	372	1,983	269
South Atlantic, total	2,762,192	133,804	21,087	502,069	840,487	74,988	20,386	901,025	8,253	74,019	163,849	22,225
Delaware	31,393	4,230	1,345	2,020	11,189	1,000	275	4,948	223	1,096	5,067	0
District of Columbia	326,093	2,049	374	7,835	237,884	1,436	729	59,659	112	5,206	9,690	1,119
Florida	348,458	19,124	4,737	19,495	133,148	17,860	2,671	108,809	1,345	9,541	29,180	2,548
Georgia	294,322	23,628	1,664	42,688	85,536	17,048	2,269	90,958	589	5,946	20,119	3,877
Maryland	805,554	11,812	4,280	393,327	61,411	10,949	1,967	261,696	414	23,718	32,946	3,034
North Carolina	465,915	28,438	933	18,354	109,825	7,459	7,249	245,445	651	7,831	35,355	4,375
South Carolina	120,735	15,303	3,720	3,435	58,822	1,526	1,241	27,571	280	1,007	7,627	203
Virginia	297,855	18,921	3,679	14,704	103,392	12,432	2,042	93,675	2,105	18,292	22,497	6,116
West Virginia	71,867	10,299	355	211	39,280	5,278	1,943	8,264	2,534	1,382	1,368	953
East South Central, total	842,960	93,709	6,936	22,210	386,983	25,247	1,892	237,978	4,538	32,284	28,041	3,142
Alabama	277,316	21,721	335	12,926	116,833	2,786	433	87,702	830	24,250	7,408	2,092
Kentucky	144,600	21,023	4,660	554	82,006	3,270	336	25,449	653	1,048	5,424	177
Mississippi	144,588	30,609	1,864	1,927	83,194	5,153	32	12,711	2,039	1,660	4,976	423
Tennessee	276,456	20,356	77	6,803	104,950	14,038	1,091	112,116	1,016	5,326	10,233	450
West South Central, total	1,237,178	94,132	10,356	80,071	490,472	47,714	7,967	381,269	3,308	35,154	71,378	15,357
Arkansas	100,948	16,806	350	729	65,691	1,125	186	10,712	171	204	1,926	3,048
Louisiana	222,509	15,005	3,162	2,676	121,742	12,162	2,707	53,035	1,341	1,225	6,819	2,635
Oklahoma	132,585	15,000	950	4,463	78,549	6,522	700	16,500	386	2,940	6,108	467
Texas	781,136	47,321	5,894	72,203	224,490	27,905	4,374	301,022	1,410	30,785	56,525	9,207
Mountain, total	890,589	45,636	12,632	93,563	282,718	30,500	12,345	233,701	17,736	60,665	97,040	4,053
Arizona	175,490	6,038	360	11,320	42,756	3,821	625	56,036	5,942	20,987	26,304	1,301
Colorado	257,136	9,811	10,396	13,929	66,654	7,237	2,125	95,450	1,352	16,679	32,166	1,337
Idaho	41,739	6,501	80	380	27,742	101	321	1,248	1,449	1,726	1,428	763
Montana	44,755	6,088	100	239	23,529	51	1,073	3,644	4,162	447	5,311	111
Nevada	35,768	2,684	1,553	154	9,999	3,488	6,818	4,552	1,775	291	4,365	89
New Mexico	112,413	5,670	143	18,122	33,190	9,999	264	17,268	337	18,204	9,205	11
Utah	203,344	5,378	0	48,377	71,092	5,479	1,049	53,972	2,157	2,072	13,678	90
Wyoming	19,944	3,466	0	1,042	7,756	324	70	1,531	562	259	4,583	351
Pacific, total	2,389,816	66,383	24,310	203,770	447,783	114,882	9,473	1,045,497	17,420	145,315	303,184	11,799
Alaska	33,247	2,553	3,961	270	6,428	1,092	100	766	547	7,682	9,848	0
California	1,728,020	25,972	5,689	161,810	273,576	87,158	6,085	802,384	11,209	120,759	226,613	6,765
Hawaii	71,225	7,714	6,776	4,111	13,896	1,979	0	13,546	764	6,930	12,946	2,563
Oregon	180,424	14,256	2,639	8,532	59,002	14,321	1,452	54,143	3,389	2,361	19,434	895
Washington	376,900	15,888	5,245	29,047	94,881	10,332	1,836	174,658	1,511	7,583	34,343	1,576
Outlying Areas, total	263,776	18,020	936	562	220,602	27	3	18,454	312	284	4,511	65
Guam	4,150	1,788	58	0	1,122	0	0	1,021	104	0	57	0
Puerto Rico	249,379	11,632	721	562	214,569	27	3	17,015	104	284	4,397	65
American Samoa	1,555	1,073	0	0	427	0	0	30	0	0	25	0
Virgin Islands	3,299	1,692	0	0	1,146	0	0	325	104	0	32	0
Trust Territory Pac Isl	5,393	1,835	157	0	3,338	0	0	63	0	0	0	0

1/ Includes DOT, AID, HUD, Labor, and NRC.

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1990

Table 9. Federal obligations to the 100 universities and colleges receiving the largest amounts, by type of activity: fiscal year 1990

[Dollars in thousands]

Rank	Institution (ranked by total Federal obligations)	Total, all activities	Academic science and engineering							Non-science and engineering
			Total academic science and engineering	Research and development	R&D plant	Facilities for instruction in science and eng.	Fellowships, traineeships, and training grants	General support science and engineering	Other science and engineering	
	Total, all institutions	15,204,563	10,461,699	9,031,047	124,841	19,241	409,871	142,532	734,167	4,742,864
1	Johns Hopkins University	616,048	609,637	470,935	391	0	14,724	1,053	122,534	6,411
2	Stanford University	280,484	273,508	247,992	6,336	0	16,083	605	2,492	6,976
3	University of Washington	263,025	243,774	217,291	1,083	0	13,579	2,267	9,554	19,251
4	Mass Inst of Technology	247,655	242,375	218,318	12,841	0	9,467	874	875	5,280
5	University of Michigan	210,453	194,032	176,620	2,056	25	12,939	1,730	662	16,421
6	Univ of Cal Los Angeles	205,843	188,411	176,735	368	0	8,501	1,148	1,659	17,432
7	Cornell University	196,461	185,353	144,749	2,009	45	8,143	782	29,625	11,108
8	Howard University	186,575	20,613	15,541	0	45	1,139	3,373	515	165,962
9	Univ of Cal San Francisco	186,228	180,398	167,270	184	0	10,989	1,547	408	5,830
10	Pennsylvania State Univ	184,948	156,037	136,754	241	28	2,035	1,074	15,905	28,911
	Total 1st 10 institutions	2,577,720	2,294,138	1,972,205	25,509	143	97,599	14,453	184,229	283,582
11	Univ of Cal San Diego	184,033	175,266	165,224	135	54	8,738	837	278	8,767
12	Univ of Wis-Madison	183,443	177,092	155,175	2,879	0	7,436	2,093	9,509	6,351
13	University of Minnesota	181,694	157,207	137,495	790	41	7,000	1,939	9,942	24,487
14	Columbia Univ Main Div	181,551	167,167	153,171	3,385	0	8,472	862	1,277	14,384
15	Harvard University	175,329	166,225	148,055	229	0	16,754	619	568	9,104
16	Univ of Pennsylvania	169,525	157,374	142,509	804	0	11,991	1,767	303	12,151
17	Yale University	164,044	158,034	142,483	1,277	0	11,669	1,104	1,501	6,010
18	Univ of Cal Berkeley	156,170	142,197	123,983	0	0	12,812	798	4,604	13,973
19	University of Pittsburgh	146,345	121,254	114,262	989	160	3,727	597	1,519	25,091
20	Univ of Southern Cal	144,078	129,396	122,734	1,688	0	3,977	423	574	14,682
	Total 1st 20 institutions	4,263,932	3,845,350	3,377,296	37,685	398	190,175	25,492	214,304	418,582
21	University of Colorado	142,413	125,571	116,449	318	23	5,176	1,072	2,533	16,842
22	Washington University	134,042	129,031	117,907	0	0	10,304	462	358	5,011
23	Duke University	131,020	125,861	116,109	376	0	6,390	964	2,022	5,159
24	Univ of NC at Chapel Hill	123,985	114,020	100,183	657	0	7,092	1,600	4,488	9,965
25	University of Chicago	121,378	116,636	104,074	55	0	10,300	1,434	773	4,742
26	Univ of Ill Urbana	121,180	120,898	99,742	1,510	0	2,543	271	16,832	282
27	University of Rochester	115,415	110,524	102,453	913	0	4,818	479	1,861	4,891
28	University of Arizona	115,217	102,069	92,824	629	0	2,925	775	4,916	13,148
29	Univ of Texas at Austin	109,480	109,231	93,401	0	0	2,025	320	13,485	249
30	Ohio State University	109,258	94,206	80,401	105	0	1,109	1,078	11,513	15,052
	Total 1st 30 institutions	5,487,320	4,993,397	4,400,839	42,248	421	242,857	33,947	273,085	493,923
31	Indiana University	100,284	68,002	61,435	476	51	2,828	962	2,250	32,282
32	University of Iowa	93,991	82,704	76,762	655	0	3,742	857	688	11,287
33	New York University	92,792	80,795	75,749	0	0	3,550	554	942	11,997
34	Michigan State University	90,711	73,686	56,619	3,260	0	1,858	444	11,505	17,025
35	Purdue University	90,518	76,761	63,167	1,589	0	1,459	555	9,991	13,757
36	Louisiana State Univ	89,406	59,592	40,886	9,865	80	497	423	7,841	29,814
37	Univ Alabama Birmingham	88,925	78,952	74,529	0	0	3,734	490	199	9,973
38	University of Massachuset	87,501	73,482	66,811	0	0	1,389	797	4,485	14,019
39	Univ of Cal Davis	84,983	72,093	68,952	259	0	1,909	460	513	12,890
40	University of Florida	84,222	69,207	56,063	1,652	0	2,610	498	8,384	15,015
	Total 1st 40 institutions	6,390,653	5,728,671	5,041,812	60,004	552	266,433	39,987	319,883	661,982
41	Univ of MD College Park	83,268	76,607	64,723	384	0	572	401	10,527	6,661
42	Case Western Reserve Univ	82,839	77,215	71,263	78	0	5,020	808	46	5,624
43	Vanderbilt University	82,613	79,812	70,585	0	0	5,536	1,302	2,389	2,801
44	Texas A & M University	81,898	69,374	47,221	3,460	34	1,123	187	17,349	12,524
45	University of Utah	81,793	69,261	65,250	0	0	2,425	757	829	12,532
46	University of Miami	79,896	67,130	63,707	0	0	1,782	472	1,169	12,766
47	Baylor Col of Medicine	78,235	76,110	72,260	0	0	2,025	543	1,282	2,125
48	California Inst of Tech	77,647	77,647	69,228	521	0	4,150	152	3,596	0
49	Northwestern University	76,004	68,236	61,100	104	0	2,858	1,440	2,734	7,768
50	Boston University	75,650	65,233	59,380	686	0	3,903	661	603	10,417
	Total 1st 50 institutions	7,190,496	6,455,296	5,686,529	65,237	586	295,827	46,710	360,407	735,200

See explanatory material, if any, and SOURCE, at end of table.

Table 9. Federal obligations to the 100 universities and colleges receiving the largest amounts, by type of activity: fiscal year 1990

[Dollars in thousands]

Rank	Institution (ranked by total Federal obligations)	Total, all activities	Academic science and engineering							Non-science and engineering
			Total academic science and engineering	Research and development	R&D plant	Facilities for instruction in science and eng.	Fellowships, traineeships, and training grants	General support science and engineering	Other science and engineering	
51	Yeshiva University	75,080	72,509	67,045	0	34	4,677	751	2	2,571
52	Univ of Tennessee All Cmp	73,038	58,126	44,759	118	103	1,038	779	11,329	14,912
53	University of Virginia	72,701	66,690	60,796	90	0	4,627	627	550	6,011
54	Utah State University	70,451	60,376	52,713	51	0	497	409	6,706	10,075
55	University of Kentucky	70,400	45,769	29,375	469	4,459	561	392	10,513	24,631
56	Rutgers the St Univ of NJ	68,568	52,533	44,642	86	0	1,368	667	5,770	16,035
57	University of Cincinnati	67,212	43,746	38,674	0	0	2,092	2,617	363	23,466
58	Univ of Cal Irvine	64,278	57,166	53,429	120	0	1,887	1,002	728	7,112
59	N C State Univ at Raleigh	63,280	58,497	43,466	30	0	1,076	181	13,744	4,783
60	New Mexico State Univ	61,934	49,161	45,177	0	0	634	481	2,869	12,773
	Total 1st 60 institutions	7,877,438	7,019,869	6,166,605	66,201	5,182	314,284	54,616	412,981	857,569
61	Univ of Ill Chicago	60,405	45,988	42,293	10	0	1,416	388	1,881	14,417
62	U P R - Regional Col Admn	59,640	373	373	0	0	0	0	0	59,267
63	University of Georgia	59,219	53,817	39,767	1,472	0	798	500	11,280	5,402
64	Emory University	59,191	51,169	49,581	0	0	1,270	318	0	8,022
65	Oregon State University	59,048	50,845	44,542	0	0	700	671	4,932	8,203
66	Princeton University	58,764	55,366	50,474	310	0	4,091	252	239	3,398
67	Iowa State University	58,104	45,647	28,915	5,310	0	628	122	10,672	12,457
68	Georgia Institute of Tech	57,961	56,303	54,271	0	58	1,034	377	563	1,658
69	Carnegie-Mellon Univ	56,900	52,344	50,025	189	0	1,429	191	510	4,556
70	U Tex Sw Med Ctr - Dallas	56,419	54,637	50,504	0	0	2,882	894	357	1,782
	Total 1st 70 institutions	8,463,089	7,486,358	6,577,350	73,492	5,240	328,532	58,329	443,415	976,731
71	Colorado State University	54,633	47,211	40,820	207	0	1,146	636	4,402	7,422
72	Univ of Hawaii-Manoa	54,567	46,434	40,049	1,241	0	956	435	3,753	8,133
73	University of Connecticut	54,319	49,185	43,589	0	0	1,901	648	3,047	5,134
74	Woods Hole Ocngrphic Inst	53,690	53,690	50,751	1,832	0	50	61	996	0
75	SUNY at Stony Brook	53,323	50,890	45,868	2,895	0	1,084	819	224	2,433
76	Virginia Commonwlth Univ	52,409	45,376	42,678	0	0	1,711	388	599	7,033
77	Univ of Cal Santa Barbara	52,020	45,373	41,661	28	0	466	650	2,568	6,647
78	CUNY Mount Sinai Schl Med	51,910	46,208	43,954	0	0	2,047	207	0	5,702
79	VA Polytech Inst & St U	51,111	44,248	32,239	573	0	677	156	10,603	6,863
80	Gallaudet University	49,819	4,457	3,812	0	0	83	12	550	45,362
	Total 1st 80 institutions	8,990,890	7,919,430	6,962,771	80,268	5,240	338,653	62,341	470,157	1,071,460
81	Univ of MD Balt Prof Sch	47,448	42,798	41,100	168	0	613	278	639	4,650
82	Oregon Hlth Sciences Univ	45,997	42,403	25,344	10,000	0	804	667	5,588	3,594
83	Univ of Missouri Columbia	45,855	37,393	25,258	0	0	1,212	341	10,582	8,462
84	Univ of Med & Dent of N J	45,383	39,183	38,066	0	0	509	488	120	6,200
85	SUNY at Buffalo All Cmps	44,424	42,708	36,291	0	0	682	731	5,004	1,716
86	Tufts University	43,658	41,174	39,142	345	0	1,169	305	213	2,484
87	Georgetown University	43,508	32,158	28,740	700	0	792	633	1,293	11,350
88	Rochester Inst Technology	43,032	2,140	1,806	0	309	0	0	25	40,892
89	Brown University	42,228	37,107	33,342	797	0	1,351	406	1,211	5,121
90	Inter Am U Pr-San German	41,380	386	0	0	29	0	263	94	40,994
	Total 1st 90 institutions	9,433,803	8,236,880	7,231,860	92,278	5,578	345,785	66,453	494,926	1,196,923
91	University of Kansas	41,198	32,713	27,212	101	0	1,187	517	3,696	8,485
92	Temple University	40,797	28,545	26,098	0	0	1,344	371	732	12,252
93	U Tex Hlth Sci Ctr S Anto	40,094	36,283	33,306	86	0	1,357	741	793	3,811
94	Rockefeller University	37,279	37,279	35,423	70	0	1,439	347	0	0
95	Univ of VT & St Agric Col	36,999	35,305	31,402	359	0	1,025	256	2,263	1,694
96	Florida State University	36,767	29,152	27,531	70	0	237	548	766	7,615
97	Washington State Univ	36,685	28,556	20,550	2,045	0	395	271	5,295	8,129
98	Oklahoma State University	36,346	25,586	15,052	287	0	395	57	9,795	10,760
99	Puerto Rico Jr Col	36,302	0	0	0	0	0	0	0	36,302
100	Dartmouth College	36,294	32,994	31,409	0	0	1,125	202	258	3,300
	Total 1st 100 institutions	9,812,564	8,523,293	7,479,843	95,296	5,578	354,289	69,763	518,524	1,289,271

SOURCE: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1990

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